Author Index to Volume 30

Abdel-Gawad, Ib. See Hebeish, A., 2321
Abd-El-Hakim, A. A. See Moustafa, A. B., 1963
Abdul-Rasoul, F. A. See Abu-Zeid, M. E., 3791
Abu-Zeid, M. E.
—; Nofal, E. E.; Tahseen, L. A.; Abdul-Rasoul, F. A.: Mechanical Degradation of PVC Films Monitored by Photoacoustic Spectroscopy, 3791
Achary, P. S. See Ramaswamy, R., 3569
Achwal, W. B.
—; Murali, R.: Characterization of Acidic Groups in Oxycelluloses III. Effect of Cation Freeing and Blocking on Estimation of Carboxyl Groups and Lactones by the Idometric Method, 4297
Agari, Y.
—; Uno, T.: Thermal Conductivity of Polymer Filled with Carbon Materials: Effect of Conductive Particle Chains on Thermal Conductivity, 2225
Aharoni, S. M.
—; Cilurso, F. G.; Hanrahan, J. M.: Trifluoroethanol/Chloroalkane Mixtures: Excellent Novel Solvents for Aliphatic Polyamides, 2505
Ajji, A.
—; Jeremie, G.; Rudin, A.; Schreiber, H. P.: Effect of Aggregation States on Some Properties of PVC Solids and Melts, 1695
—; Schreiber, H. P.; Rudin, A.; Teh, J. W.: Solution-Induced Changes in the Properties of Polyethylenes, 731
Alassia, L. M. See Couso, D. A., 3249
Al-Khayat, B. H. F. See Bishai, A. M., 2009
Al-Malaika, S.
—; Marogi, A.; Scott, G.: Mechanisms of Antioxidant Action: Transformations Involved in the Antioxidant Function of Zinc Dialkyl Dithiocarbamates. I, 789
Ammar, A. S. A. See Ismail, M. I., 2343
Anbazhagan, K.
—; Reddy, C. R.; Joseph, K. T.: Study of Mechanical Properties of Urethane-Chlorinated Rubber Graft Copolymer System. I, 391
Ando, T. See Sada, E., 4113
Andrade, J. D. See Hu, C. Z., 4409
Arai, K.
—; Ogiwara, Y.: Hydrolysis of Cellulose Fiber in the Presence of 12-Tungstosilicic Acid, 3051
Araki, Y. See Hara, H., 9014
Arroyo, M.
—; Iglesias, A.; Perez, F.: Surface Characterization of a Titanate Coupling Agents Modified Sepiolite, 2475
Artymyshyn, B. See Kronick, P. L., 3095
Ashida, M.
—; Noguchi, T.; Mashimo, S.: Effect of Matrix's Type on the Dynamic Properties for Short Fiber-Elastomer Composite, 1011
Assink, R. A.
Radiation Crosslinking of Polyurethanes (Note), 2701
Attalla, G. See Del Giudice, L., 4305
Augl, J. M.
—; Land, D. J.: A Numerical Approach for Obtaining Nonlinear Viscoelasticity Parameters of Polymeric Materials and Composites, 4203
Avny, Y. See Domb, A., 3589
Awni, F. A. See Bishai, A. M., 2009

Bacakova, M. See Klasek, A., 515
Bachmann, M. A. See Lane, J. W., 9013
Baddour, R. F. See Corbin, G. A., 1407
Badran, A. S. See Moustafa, A. B., 1963, 3443
Bagrodia, S. R.
—; Wilkes, G. L.; Kennedy, J. P.: New Polyisobutylene-Based Model Elastomeric Ionomers. VIII. Thermal-Mechanical Analysis, 2179
Balkas, T. I. See Okay, O., 2065
Baogong, Q.
—; Fuseng, Y.; Rongshi, C.; Wanjun, R. M. Z.; Shentian, L.; Yanshou, Z.; Yuhua, Y.: Characterization of *cis*-1,4-Polyisoprene Polymerized with Lanthanide Catalyst System (Ln–PIR), 375
Barker, R. H. See Lawler, T. E., 2263
Barlow, J. W. See Chiou, J. S., 1173, 2633, 3911; Woo, E. M., 4243
Barr-Howell, B. D.
—; Peppas, N. A.; Squires, T. G.: Transport of Penetrant in the Macromolecular Structure of Coals III. Dynamic Swelling of Stiff Polymer Networks That Simulate the Coal Structure, 9005
Bartlet, P.
—; Pascault, J.-P.; Sautereau, H.: Relationships between Structure and Mechanical Properties of Rubber-Modified Epoxy Networks Cure with Dicyanodiamide Hardener, 2955
Basily, Is. K. See Hebeish, A., 2321
Beck, T. R. See Newey, H. A., 675; Wedgewood, A. R., 111
Bell, J. P. See Kirshenbaum, S. L., 1875; Simal, A. L., 1195, 1679
Bellenger, V.
—; Verdu, J.: Oxidative Skeleton Breaking in Epoxy–Amine Networks, 363
Benelhadjsaid, C.
—; Porter, R. S.: Crystalline-State Extrusion of Low Density Polyethylenes, 741
Bera, S. C. See Manjula, S., 1767
Berger, J.
—; Lohse, F.: Polymerization of *p*-Cresyl Glycidyl Ether Catalyzed by Imidazoles I. The Influence of the Imidazole Concentration, the Reaction Temperature, and the Presence of Isopropanol on the Polymerization, 531
Bersted, B. H.
On the Effects of Very Low Levels of Long Chain Branching on Rheological Behavior in Polyethylene, 3751
Berti, C. See Pilati, F., 1267
Bertinotti, F. See Del Giudice, L., 4305
Besso, E. See Steck, A. E., 2837
—; Legras, R.; Eisenberg, A.; Gupta, R.; Harris, F. W.; Steck, A. E.; Yeager, H. L.: Aromatic Ionomer Membranes. I. Physical and Mechanical Properties, 2821
Bhadani, S. N. See Mishra, M. K., 723, 3113

Bhat, N. V. See Nadiger, G. S., 221, 4127
Bhatnagar, H. L. See Jain, R. K., 897
Bhattacharya, V. K.
—; Maiti, M. M.; Maiti, S.: Polymer Characteristics and Fracture Morphology of Radiation-Polymerized Methyl Methacrylate-Impregnated Mortar, 1935
Bhattacharyya, S. N.
—; Maldas, D.: Radiation-Induced Graft Copolymerization of Mixtures of Styrene and Acrylamide onto Cellulose Acetate. V. Studies on Thermal Behavior, 151
—; Maldas, D.: Radiation-Induced Graft Copolymerization of Mixtures of Styrene and Acrylamide onto Cellulose Acetate. VI. Permeability of Sodium Chloride and Sodium Sulfate, 159
Bhowmick, A. K.
—; Rampalli, S.; McIntyre, D.: Effect of Resin Components on the Degradation of Guayule Rubber, 2367
Bishai, A. M.
—; Al-Khayat, B. H. F.; Awni, F. A.; Gamil, F. A.: Dielectric and Mechanical Properties of Poly(vinyl Chloride)–Dioctylphthalate Systems, 2009
Blair, H. S. See McKay, G., 4325
Bliznyuk, V. N. See Shilov, V. V., 1927
Boguslavsky, D. B. See Shilov, V. V., 1927
Bohm, G. G. A. See Roland, C. M., 2021
Boldarino, P. See Guerrero, S. J., 955
Botta, A.
—; de Candia, F.; Palumbo, R.: Glass Transition in Aliphatic Polyamides, 1669
Bottino, A.
—; Capannelli, G.; Munari, S.: Effect of Coagulation Medium on Properties of Sulfonated Polyvinylidene Fluoride Membranes, 3009
Bradbury, J. H.
—; Perera, M. C. S.: Epoxidation of Natural Rubber Studied by NMR Spectroscopy, 3347
Brash, J. L. See Whicher, S. J., 2297
Breillat, C. See Gaboriaud, F., 3531
Brossas, J. See Friedmann, G., 755
Buechler, P. See Kronick, P. L., 3095
Bufkin, B. G. See Chen, F.-B., 9011
Bugada, D. C.
—; Rudin, A.: Characterization of Poly(vinyl Alcohol), 4137
Buri, P. A. See Robert, C. C. R., 301
Burks, H. D.
—; St. Clair, T. L.: Processable Aromatic Polyimides, 2401
Burns, C. M. See Lau, W. W. Y., 1187
Busso, C. J. See Newey, H. A., 675

Cakmak, M. See Wang, Y., 2615
—; White, J. L.; Spruiell, J. E.: An Investigation of the Kinematics of Stretch Blow Molding Poly(ethylene Terephthalate) Bottles, 3679
Capannelli, G. See Bottino, A., 3009
Capka, M. See Heidingsfeldova, M., 1837
Carciello, N. See Sugama, T., 2137, 4357
Carratt, G. M. See Louie, B. M., 3985
Chainey, M.
—; Wilkinson, M. C.; Hearn, J.: Preparation of Polymer Latex Films by a Flash Casting Technique, 4273
Chakraborty, K. B.
—; Scott, G.; Yaghmour, H.: Mechanisms of Antioxidant Action: The Antioxidant Activity of Nitrones in Polypropylene, 3267
Chakravarty, S. N. See Mukherjee, A. K., 4417
Chakroborty, K. B.
—; Scott, G.; Yaghmour, H.: Mechanisms of Antioxidant Action: C–Nitroso Compounds as UV Stabilizers for Polypropylene, 189
Challa, R. R.
—; Drew, J. H.; Stannett, V. T.; Stahel, E. P.: Radiation-Induced Emulsion Polymerization of Vinyl Acetate in a Pilot Plant Reactor I. Recycle Flow Reactor, 4261
Chandorikar, M. V.
—; Korat, D. R.; Devmurari, C. V.: Development of Poly(*meta*-Phenylene Terephthalamide) as a Membrane Material for the Reverse Osmosis Process, 297
Chang, D. Y. See Lai, J. H., 1167
Chang, D.-K. See Stiel, L. I., 1145
Chang, S.-T. See Hon, D. N.-S., 1429
Charmas, W.
Thioether Glycidyl Resins. V. Products of Condensation of 1,4-, 1,5-Di(mercapto)naphthalene and 4,4′-Di(mercapto)diphenyl with Epichlorohydrin, 411
Chaturvedi, P. N. See Deshmukh, S. R., 4013
Chauhan, D. S. See Mukherjee, A. K., 4417
Chauhan, R. S.
—; Rao, M. V. S.; Dweltz, N. E.: Chemical Etching of Poly(ethylene Terephthalate) Filaments, 19
Chee, K. K.
Estimation of Mark–Houwink–Sakurada Constants Using Polydisperse Polymers (Note), 1323
Estimation of Molecular Weight Averages From Intrinsic Viscosity, 1359
Novel Methods for Efficient Estimate of Intrinsic Viscosity, 2607
Chen, F.-B.
—; Bufkin, B. G.: Crosslinkable Emulsion Polymers by Autoxidation. II, 9011
Chen, S. P.
—; Osterhoudt, H. W.: Diffusion and Solubility of Some Azo Dyes in Swollen Gelatin Matrices: The Effects of Dye Size, Matrix Swell, and Dye–Matrix Interactions, 2075
Cheng, J. T. See Langsam, M., 1285
—; Langsam, M.: Particle Structure of PVC Based on Cellulosic Suspension System. III. Effect of Monomer Refluxing, 1365
Cheng, K.-C. See Lee, Y.-D., 3605
Chiang, W.-Y.
—; Hu, C.-M.: Studies of Reactions with Polymers. I. The Reaction of Maleic Anhydride with PVA and the Properties of the Resultant, 3895
—; Hu, C.-M.: Studies of Reactions with Polymers. II. The Reaction of Maleic Anhydride with Acrylonitrile onto PVA and the Properties of the Resultant, 4045
Chien, M.-C. See Field, N. D., 2105
Chiou, J. S.
—; Barlow, J. W.; Paul, D. R.: Plasticization of Glassy Polymers by CO_2, 2633
—; Barlow, J. W.; Paul, D. R.: Polymer Crystallization Induced by Sorption of CO_2 Gas, 3911
—; Barlow, J. W.; Paul, D. R.: Sorption and Transport of Gases in Miscible Poly(Methyl Acrylate)/Poly(Epichlorohydrin) Blends, 1173
—; Maeda, Y.; Paul, D. R.: Gas and Vapor Sorption in Polymers Just Below T_g, 4019
Chiu, W. Y. See Louie, B. M., 3189, 3841
Chiu, W.-Y.
—; Fang, S.-J.: Mechanical Properties and Morphology of Crosslinked PP/PE Blends and PP/PE/Propylene–Ethylene Copolymer Blends, 1473
Cho, I.
—; Lee, K.-W.: Morphology of Latex Particles Formed by Poly(methyl Methacrylate)-Seeded Emulsion Polymerization of Styrene, 1903
Choi, K. Y.
Control of Molecular Weight Distribution of Polyethylene in Continuous Stirred Tank Reactors with High Activity Soluble Ziegler-type Catalysts (Note), 2707
—; Ray, W. H.: Polymerization of Olefins through Heterogeneous Catalysis. II. Kinetics of Gas Phase Propylene Polymerization with Ziegler–Natta Catalysts, 1065
Choudhary, M. S. See Goel, T. C., 1491
—; Fink, J. K.; Lederer, K.: Investigation of the Action of Flame Retardants in Cellulose. I. Investigation of the Flame Retardant Action of 2,2′-Oxybis(5,5-Dimethyl-1,3,2-Dioxaphosphorinane-2,2′-Disulfide) in Cellulose, 4345

Choudhary, V. See Goel, T. C., 1491
Christiansen, A. W.
—; Gollob, L.: Differential Scanning Calorimetry of Phenol–Formaldehyde Resols, 2279
Chu, C. H. See Rodriguez, F., 1629
Chu, C.-C.
—; Louie, M.: A Chemical Means To Study the *In Vitro* Hydrolytic Degradation of Poly(glycolic Acid), 3133
Chu, H.-H. See Stiel, L. I., 1145
Chu, S. G. See Class, J. B., 805, 815, 825
Chu, W. T. W. K. See Rodriguez, F., 1629
Chuang, H.-K. See Han, C. D., 2431, 4431
—; Dae Han, C.: Mechanical Properties of Blends of Nylon 6 with a Chemically Modified Polyolefin, 165
—; Han, C. D.: Blends of Nylon 6 with an Ethylene-Based Multifunctional Polymer. II. Property–Morphology Relationships, 2457
Chung, S. Y. See Fedors, R. F., 2551
Cilurso, F. G. See Aharoni, S. M., 2505
Class, J. B.
—; Chu, S. G.: The Viscoelastic Properties of Rubber–Resin Blends. I. The Effect of Resin Structure, 805
—; Chu, S. G.: The Viscoelastic Properties of Rubber–Resin Blends. II. The Effect of Resin Molecular Weight, 815
—; Chu, S. G.: The Viscoelastic Properties of Rubber–Resin Blends. III. The Effect of Resin Concentration, 825
Cohen, R. E. See Corbin, G. A., 1407; Del Giudice, L., 4305
Cooper, S. L. See Speckhard, T. A., 647; Yu, X., 2115
Corbin, G. A.
—; Cohen, R. E.; Baddour, R. F.: Solvent Permeation in Plasma-Fluorinated Polyethylene, 1407
Coulter, D. R.
—; Smith, M. V.; Tsay, F.-D.; Gupta, A.; Fornes, R. E.: The Effects of 3-MeV Proton Radiation on an Aromatic Polysulfone, 1753
Couso, D. A.
—; Alassia, L. M.; Meira, G. R.: Molecular Weight Distribution Control in a Semibatch "Living" Anionic Polymerization. I. Theoretical Study, 3249
Croucher, M. D.
—; Lok, K. P.; Wong, R. W.; Drappel, S.; Duff, J. M.; Pundsack, A. L.; Hair, M. L.: Use of Sterically Stabilized Polymer Colloids as Electrostatically-Based Liquid Developers, 593
Czvikovszky, T. See Owolabi, O., 1827

Dae Han, C. See Chuang, H-K., 165
Daghistani, A. Y. See Rabie, S. M., 279
Dalven, P. I.
—; Hildebrandt, J. R.; Shamir, A.; Laccetti, A. J.; Hodgins, L. T.; Gregor, H. P.: Acrylonitrile-Based Copolymers: Synthesis, Characterization, and Formation of Ultrafiltration Membranes Utilized for the Immobilization of Proteins, 1113
Danno, T.
—; Furuhata, K.-I.; Miyasaka, K.: The Effect of Syndiotacticity on the Structure and Properties of Dehydrochlorinated Poly(vinyl Chloride) Films, 1219
Dansizer, C. J. See Kamath, Y. K., 925, 937
Das, A. P. See Lenka, S., 429, 2753
Datye, K. V.
—; Raje, H. M.: Kinetics of Transesterification of Dimethylene Terephthalate with Ethylene Glycol, 205
De Abajo, J. See Serna, F. J., 61
Dean, B. D.
Methyl Methacrylate Copolymer–SAN Miscibility (Note), 4193
de Candia, F. See Botta, A., 1669
—; Romano, G.; Vittoria, V.; Peterlin, A.: Shrinkage and Retractive Force of Drawn Isotactic Polypropylene during Heating, 4159
De Jong, S. See Wortmann, F.-J., 2195
Dekkers, M. E. J.
—; Heikens, D.: The Tensile Behavior of Polycarbonate and Polycarbonate–Glass Bead Composites, 2389
De La Campa, J. G. See Serna, F. J., 61
Del Giudice, L.
—; Cohen, R. E.; Attalla, G.; Bertinotti, F.: Compatibilizing Effect of a Diblock Copolymer of Isotactic Polystyrene and Isotactic Polypropylene in Blends of the Corresponding Homopolymers, 4305
Dellenfalk, B. See Parpaillon, M., 581
Derringer, G. C.
—; Markham, R. L.: A Computer-Based Methodology for Matching Polymer Structures with Required Properties, 9010
De Ruvo, A. See Htun, M., 1597
Deshmukh, S. R.
—; Chaturvedi, P. N.; Singh, R. P.: The Turbulent Drag Reduction by Graft Copolymers of Guargum and Polyacrylamide, 4013
Deshpande, D. D.
—; Kandaswamy, N. R.; Tiwari, V. K.: Dielectric and Dynamic Mechanical Behavior of Poly(vinyl Acetate) Containing Small Concentrations of Cholesteryl Additives, 2869
Deuskar, V. D. See Roy-Chowdhury, P., 9012
Devadoss, E. See Gupta, S. K., 1095
Devmurari, C. V. See Chandorikar, M. V., 297
Ding, Y. S. See Speckhard, T. A., 647
Dobkowski, Z.
Characterization of Branched Polydisperse Polymers. Influence of Solvents on the Branching Parameters, 355
Dolui, S. K.
—; Pal, D.; Maiti, S.: Synthesis of a Novel Polyesterimide, 3867
Domb, A.
—; Avny, Y.: Reduction and Hydroboration with Borane and Haloborane Complexes of Poly(propylene Sulfide) Grafted on Crosslinked Polystyrene, 3589
Donaruma, L. G. See Khune, G. D., 875
Donnellan, T. See Mijovic, J., 2351
Douglas, R. B. See Lai, J. H., 1167
Douta, K. See Yanazawa, H., 547
Drappel, S. See Croucher, M. D., 593
Drew, J. H. See Challa, R. R., 4261
Drews, M. J. See Lawler, T. E., 2263
Drzal, L. T. See Gupta, V. B., 4467
Duckett, K. E. See Fu-Min, L., 1859
Duda, J. L. See Vrentas, J. S., 9001
Duff, J. M. See Croucher, M. D., 593
Dusi, M. R.
—; Galeos, R. M.; Maximovich, M. G.: Physiorheological Characterization of a Carbon/Epoxy Prepreg System, 1847
Dweltz, N. E. See Chauhan, R. S., 19; Kulshreshtha, A. K., 3423

Ebi, G. See Kolawole, E. G., 571
Egawa, H.
—; Nonaka, T.; Maeda, H.: Studies on Selective Adsorption Resins. XXI. Preparation and Properties of Macroreticular Chelating Ion Exchange Resins Containing Phosphoric Acid Groups, 3239
Eisenberg, A. See Besso, E., 2821; Rutkowska, M., 3317; Steck, A. E., 2837
El-Bazza, S. See Hebeish, A., 2321
El-Hennawi, I. M. See Younan, M. Y. A., 1999
El-Hibri, M. J.
—; Paul, D. R.: Effects of Uniaxial Drawing and Heat-Treatment on Gas Sorption and Transport in PVC, 3649
El-Kalyoubi, S. F. See El-Shinnawy, N. A., 2171
El-Naggar, A. M. Kh. See Hebeish, A., 4057, 9007
El-Okeily, M. See Ismail, M. I., 2343

El-Rifai, M. A. See Younan, M. Y. A., 1999
El-Shinnawy, N. A.
—; El-Kalyoubi, S. F.: Graft Copolymerization of Acrylonitrile onto Hemicellulose Using Ceric Ammonium Nitrate, 2171
Emelike, R. See Odozi, T., 2715
Endo, T. See Tanigaki, K., 1419
Engstrom, G. See Parpaillon, M., 581
Enikolopian, N. S.
—; Zarkhin, L. S.; Prut, E. V.: Primary Molecular Products of Mechanical Fracture of Polymers, 2291

Fagerburg, D. R.
Reaction Kinetics of the Reaction of Terephthalic Acid and Ethylene Carbonates, 3617
Synthesis and Some Properties of a Series of Polyterephthalates Having Side-Chain Branching, 889
Fang, S.-J. See Chiu, W.-Y., 1473
Farber, M. See Jones, R. B., 95
Fedors, R. F.
—; Chung, S. Y.; Hong, S. D.: Stress–Relaxation and Stress–Strain Behavior of Poly(ethylene-co-vinylacetate) at Varying Crosslink Density, 2551
Feist, W. C. See Hon, D. N.-S., 1429
Fellers, C. See Htun, M., 1597
Fellers, J. F. See Sugiyama, H., 2329
Ferradou, C.
—; Rochette, B.; Vergnaud, J. M.: Effect of a Variation in Kinetic Parameters (Rate Constant, Activation Energy) on the Vulcanization of Rubber Sheets in Injection Molding Process, 2663
Field, N. D.
—; Chien, M.-C.: Poly(ethylene Terephthalate)/Cellulose Blends, 2105
Fineman, I. See Parpaillon, M., 581
Fink, H.-P.
—; Philipp, B.: Models of Cellulose Physical Structure from the Viewpoint of the Cellulose I → II Transition, 3779
Fink, J. K. See Choudhary, M. S., 4345
Fleming, W. W.
Carbon-13 NMR Characterization of DGEBPA Epoxy Resins, 2853
Flodin, P. See Zadorecki, P., 2419, 3971
Fornes, R. E. See Coulter, D. R., 1753; Netravali, A. N., 1573
Franaszek, T. See Louie, B. M., 3841
Frick, J. G., Jr.
Bonding in Cotton Fiber from Formaldehyde-Free Crosslinks, 3467
Friedmann, G.
—; Brossas, J.; Widmaier, J. M.: Synthesis of Statistical Networks from Liquid Polybutadiene. V. Synthesis and Adhesive Properties of 1,2-Polybutadiene Networks, 755
Frisch, K. C. See Wang, C. L., 4337
Fukuda, A.
—; Hasegawa, K.; Kawaguchi, Y.; Horiuchi, H.: The Curing Behavior of Resol. III. Effect of Alkali Metal Hydroxides and Alkaline Earth Metal Hydroxides as Catalyst for the Cure of Resol, 3943
Fu-Min, L.
—; Goswami, B. C.; Spruiell, J. E.; Duckett, K. E.: Influence of Fine Structure on the Torsional Fatigue Behavior of Poly(ethylene Terephthalate) Fibers, 1859
Furuhata, K.-I. See Danno, T., 1219; Kojima, Y., 1617
Fuseng, Y. See Baogong, Q., 375

Gaboriaud, F.
—; Vantelon, J. P.; Breillat, C.: Some Aspects of Autoignition Delays and Flammability Limits of Polyurethane Based on Diphenyl Methane Diisocyanate (MDI) and Propoxylated Trimethylol Propane, 3531
Galeos, R. M. See Dusi, M. R., 1847
Galin, J. C. See Vu Khue, N., 2761
Gamil, F. A. See Bishai, A. M., 2009
Garcia-Rejon, A.
—; Manero, O.; Rangel-Nafaile, C.: Analysis of the Flow Behavior of Irradiated Polyethylene through Transient Network Models, 2941
Gardner, J. G. See McKay, G., 4325
Ghatge, N. D. See Shinde, B. M., 3505
Gilbert, R. D. See Netravali, A. N., 1573
Gillham, J. K. See Peng, X., 9003
Glasser, W. G. See Saraf, V. P., 2207, 3809
Goel, T. C.
—; Tripathi, A.; Rao, B. S.; Choudhary, M. S.; Choudhary, V.; Varma, I. K.: Vinyl Ester Resins. II. Effect of Styrene on Electrical Properties, 1491
Gollob, L. See Christiansen, A. W., 2279
Gomza, Yu. P. See Shilov, V. V., 1927
Goss, P. C. See Shuttleworth, R. W., 333
Goswami, B. C. See Fu-Min, L., 1859; Wei, K. Y., 1523
Graczyk, T.
—; Hornof, V.: Effect of Stirring on Cellulose Graft Copolymerization. V. Influence of Reaction Parameters, 4175
Gregor, H. P. See Dalven, P. I., 1113
Griffith, J. R. See Walton, T. R., 2921
Grinshpun, V.
—; Rudin, A.: High Temperature GPC of Polypropylene, 2413
Grossman, P. U. A.
Compact, Simple Stress–Relaxation Equipment (Note), 1773
Gu, J.
—; Narang, S. C.; Pearce, E. M.: Curing of Epoxy Resins with Diphenyliodonium Salts as Thermal Initiators, 2997
Guerrero, S. J.
—; Boldarino, P.; Zurimendi, J. A.: Characterization of Polyacrylamides Used in Enhanced Oil Recovery, 955
Guise, G. B.
—; Smith, G. C.: The Chemistry of a Polyamide–Epichlorohydrin Resin (Hercosett 125) Used to Shrink-resist Wool, 4099
Gungor, A. See Okay, O., 2065
Gupta, A. See Coulter, D. R., 1753
Gupta, A. D.
—; Kumar, D.: Matrix Resins Based on Bismaleimide–1,2-Polybutadienes, 3879
Gupta, A. K.
—; Purwar, S. N.: Studies on Binary and Ternary Blends of Polypropylene with SEBS, PS, and HDPE. I. Melt Rheological Behavior, 1777
—; Purwar, S. N.: Studies on Binary and Ternary Blends of Polypropylene with SEBS, PS, and HDPE. II. Tensile and Impact Properties, 1799
Gupta, B. D. See Mukherjee, A. K., 2253, 2643, 2655, 3365, 3479, 4417, 4455
Gupta, D. C.
Effect of Suspension Stabilizers on the Kinetics of Copolymerization of Acrylonitrile and Vinyl Acetate (Note), 4187
—; Sharma, R. C.: Effect of Silicon Comonomers on Thermal Degradation of Polystyrene, 4287
Gupta, R. See Besso, E., 2821
Gupta, R. K. See Steck, A. E., 2837
Gupta, S. K. See Ray, A. K., 9004
—; Kurup, M. R.; Devadoss, E.; Muthiah, Rm.; Thomas, S.: Development and Evaluation of a Novel Binder Based on Natural Rubber and High-Energy Polyurethane/Composite Propellants, 1095
—; Mohan, D.; Kumar, A.: Simulation of ARB Type Reversible Step Growth Polymerization in Semibatch Reactors, 445
—; Nath, S.; Kumar, A.: Forced Oscillations in Continuous Flow Stirred Tank Reactors with Nonlinear Step Growth Polymerization, 557

Gupta, V. B.
—; Drzal, L. T.; Rich, M. J.: The Physical Basis of Moisture Transport in a Cured Epoxy Resin System, 4467
Guthrie, J.
—; Otterburn, M. S.; Rooney, J. M.; Tsang, C. N.: The Effect of Heat on the Molecular Weight of Poly(ethyl 2-Cyanoacrylate) Adhesive, 2863

Hair, M. L. See Croucher, M. D., 593
Hakeem, N. A.
—; Moharram, M. A.: Irradiation of Cotton Fibers in the Presence of Liquids (Note), 4197
Han, C. D. See Chuang, H.-K., 2457; Stiel, L. I., 1145; Yang, H.-H., 3297
—; Chuang, H.-K.: Blends of Nylon 6 with an Ethylene-Based Multifunctional Polymer. I. Rheology–Structure Relationships, 2431
—; Chuang, H.-K.: Criteria for Rheological Compatibility of Polymer Blends, 4431
Haney, M. A.
The Differential Viscometer. I. A New Approach to the Measurement of Specific Viscosities of Polymer Solutions, 3023
The Differential Viscometer. II. On-Line Viscosity Detector for Size-Exclusion Chromatography, 3037
Hanrahan, B. D. See Runt, J., 4495
Hanrahan, J. M. See Aharoni, S. M., 2505
Haque, M. A. See Hartmann, B., 1553
Hara, H.
—; Araki, Y.; Ohotsuki, Y.; Kaiya, A.; Orii, S.; Iida, S.; Miyazaki, K.: Effects of Oxygen on Anionic Butadiene Telomerization in Hydrocarbon Solvents, 9014
Hara, J.
—; Teramae, N.; Saito, J.; Tanaka, S.: Evidence for the Presence of Cage Reaction in the Initiation Step of Thermal Polymerization of Styrenes by Field Desorption Mass Spectrometry, 1461
Hardenstine, K. E.
—; Murphy, C. J.; Sperling, L. H.; Manser, G. E.; Jones, R. B.: Characterization of Block Copolymers Based on Poly[3,3-Bis(ethoxymethyl)oxetane] and Other Novel Polyethers, 2051
Harris, F. W. See Besso, E., 2821; Steck, A. E., 2837
Harris, S. P. See Jones, R. B., 95
Hartmann, B.
—; Haque, M. A.: Equation of State for Polymer Liquids, 1553
Hasegawa, K. See Fukuda, A., 3943
Hasegawa, N. See Yanazawa, H., 547
Hashimoto, H. See Hino, K., 3369
Hashimoto, N. See Yanazawa, H., 547
Hashimoto, T. See Takaku, A., 1565
Hassanin, M. S. See Moustafa, A. B., 3443
Hatch, M. J. See Khune, G. D., 875
He, F.-F. See Kise, H., 1133
He, T.-B.
On the Chain Cross-Sectional Area and Motion of Macromolecular Chains, 4319
Hearn, J. See Chainey, M., 4273
Hebeish, A.
—; Abdel-Gawad, Ib.; Basily, Is. K.; El-Bazza, S.: Degradation of Poly(vinyl Alcohol) in Strongly Alkaline Solutions of Hydrogen Peroxide, 2321
—; Zahran, A. H.; El-Naggar, A. M. Kh.: Behavior of Cyanoethylated Cotton Towards Gamma Radiation, 4057
—; Zahran, A. H.; El-Naggar, A. M. Kh.: Moisture Regain and Dyeability of Poly(acrylic Acid)- and Poly(styrene)-Carbamoylethylated Cotton Graft Copolymers Induced by Gamma Radiation, 9007
Heffelfinger, M. T.
—; Langsam, M.: Vinyl Chloride—Vinyl Acetate Kinetic Modeling. I. Determination of Radical Efficiency Factor, 3377
Heidingsfeldova, M.
—; Capka, M.: Rhodium Complexes as Catalysts for Hydrosilylation Crosslinking of Silicone Rubber, 1837
Heikens, D. See Dekkers, M. E. J., 2389
Hendrikman, J. O. See Mulder, M. H. V., 2805
Heuvel, H. M.
—; Huisman, R.: Infrared Spectra of Poly(ethylene Terephthalate) Yarns. Fitting of Spectra, Evaluation of Parameters, and Applications, 3069
Higashimura, T. See Takada, K., 1605
Hildebrandt, J. R. See Dalven, P. I., 1113
Hino, K.
—; Hashimoto, H.: Morphological Studies on the Adhesion Mechanism of Pressure-Sensitive Adhesives, 3369
Hirata, M. See Inagaki, N., 3385
Hirose, T.
—; Mizoguchi, K.; Kamiya, Y.: Gas Transport in Poly(vinyl Benzoate), 401
Hodgins, L. T. See Dalven, P. I., 1113
Hoffmann, G. See Poliszko, S., 799
Hoheisel, T. H. See Morgan, R. J., 289
Hon, D. N.-S.
—; Chang, S.-T.; Feist, W. C.: Protection of Wood Surfaces against Photooxidation, 1429
Hong, K.-B.
—; Spruiell, J. E.: The Effect of Certain Processing Variables on the Form II to Form I Phase Transformation in Polybutene-1, 3163
Hong, S. D. See Fedors, R. F., 2551
Hopfenberg, H. B. See Yang, D. K., 1035
Horiuchi, H. See Fukuda, A., 3943
Horky, J. See Seidl, J, 1741
Hornof, V. See Graczyk, T., 4175
Hourston, D. J.
—; McCluskey, J. A.: Semi- and Fully Interpenetrating Polymer Networks Based on Polyurethane–Polyacrylate Systems. VII. Polyurethane–Poly(methyl Acrylate) Interpenetrating Polymer Networks, 2157
Houtman, C. See Matejka, L., 2787
Hsiao, S.-H. See Yang, C.-P., 2883
Hsiue, G-H.
—; Huang, W-K.: Preirradiation Grafting of Acrylic and Methacrylic Acid onto Polyethylene Films: Preparation and Properties, 1023
—; Shih, S. W. F.: A Scheme to Predict the Morphology of Diblock Copolymers and Their Blends, 1659
Hsu, S.-J. R. See Wildman, G. C., 4385
Htun, M.
—; De Ruvo, A.; Fellers, C.: The Dynamic Mechanical Behavior of Paper during Drying, 1597
Hu, C. Z.
—; Andrade, J. D.: Pyrolyzed, Conducting Kapton Polyimide: An Electrically Conducting Material, 4409
Hu, C.-M. See Chiang, W.-Y., 3895, 4045
Huang, R. Y. M. See Lau, W. W. Y., 1187
Huang, W-K. See Hsiue, G-H., 1023
Huisman, R. See Heuvel, H. M., 3069
Humphreys, J.
—; Ward, I. M.; Nix, E. L.; McGrath, J. C.: A Study of the Drawing Behavior of Polyvinylidene Fluoride, 4069
Hwang, K. K. S. See Speckhard, T. A., 647

Ibrahim, A. M. See Stark, E. B., 1717
Igarashi, Y. See Oikawa, E., 1511
Iglesias, A. See Arroyo, M., 2475
Iida, S. See Hara, H., 9014
Iijima, T. See Kuramoto, N., 2847
Iisaka, K.
—; Namai, Y.: Fatigue Mechanism of Fiber-Reinforced Polypropylene Swollen by Oil, 3397
Inagaki, N.
—; Kondo, S.; Hirata, M.; Urushibata, H.: Plasma Polymerization of Organosilicon Compounds, 3385
Inata, H.
—; Matsumura, S.: Chain Extenders for Polyesters. I. Addition-Type Chain Extenders Reactive with Carboxyl End Groups of Polyesters, 3325

Inoue, M. See Sapieha, S., 1257
Isayama, M. See Okabe, M., 9008
Ishihara, K. See Itoh, T., 179
Ishikawa, K. See Tanioka, A., 695
Ishizu, A. See Isogai, A., 345
Ismail, M. I.
—; Ammar, A. S. A.; El-Okeily, M.: On Thermal Conductivity of Some Fabrics, 2343
Isogai, A.
—; Ishizu, A.; Nakano, J.: Thermal and Structural Properties of Tri-*O*-Substituted Cellulose Ethers, 345
Ito, J.
—; Mitani, K.; Mizutani, Y.: Annealing of Polypropylene/Poly(ethylene-co-Propylene) Blend. II. Influence of the Structure and Properties of Poly(ethylene-co-Propylene) and Blended Polyethylene on Impact Strength, 497
Ito, M.
—; Nakamura, T.; Tanaka, K.: Pulsed NMR Study on the Silica-Filled Rubber Systems, 3493
Itoh, T.
—; Toya, H.; Ishihara, K.; Shinohara, I.: Design of Polymer Membrane with Permselectivity for Water–Ethanol Mixture. II. Preparation of Crosslinked Poly(methyl Acrylate) Membrane with Diethylene Triamine and Its Permselectivity, 179
Iwatsu, T. See Misaki, T., 1083
Iyer, K. R. K. See Iyer, P. B., 435
Iyer, P. B.
—; Iyer, K. R. K.; Patil, N. B.: A Study of X-Ray Orientation in Never-Dried Cotton Fibers (Note), 435
Izrailov, L. See Ram, A., 9002

Jada, S. S.
—; Reed, J. L.: Ferrocene-Bound Polyester Resins, 1309
Jain, R. K.
—; Lal, K.; Bhatnagar, H. L.: Thermal Degradation of Cellulose and Its Phosphorylated Products in Air and Nitrogen, 897
Jang, B. Z.
—; Lieu, Y. K.: Fracture Behavior of Short Fiber Reinforced Thermoplastics I. Crack Propagation Mode and Fracture Toughness, 3925
—; Uhlmann, D. R.; Vander Sande, J. B.: Rubber-Toughening in Polypropylene, 2485
Janicki, J. See Wlochowicz, A., 1653
Jena, S. See Tripathy, S. S., 1399
Jeremie, G. See Ajji, A., 1695
Jog, J. P.
—; Nadkarni, V. M.: Crystallization Kinetics of Polyphenylene Sulfide, 997
Jones, R. B. See Hardenstine, K. E., 2051
—; Murphy, C. J.; Sperling, L. H.; Farber, M.; Harris, S. P.; Manser, G. E.: Thermal Decomposition Behavior of Poly[3,3-Bis(ethoxymethyl) Oxetane] and Related Polyethers, 95
Joseph, K. T. See Anbazhagan, K., 391

Kaito, A.
—; Nakayama, K.; Kanetsuna, H.: Preparation of High Modulus Polyethylene Sheet By the Roller-Drawing Method, 1241
Kaiya, A. See Hara, H., 9014
Kakuta, A. See Tanioka, A., 695
Kalfoglou, N. K.
Compatibility of Isotactic Polypropylene/Poly(ε-Caprolactone) Blends, 1989
Kalpagam, V. See Kumar, G. S., 609, 915
Kalyanaraman, A. R.
The Behavior of Spiral Angle ϕ and the Angle of Crystallite Dispersion α of Normal Cottons with Stress, 3801
Kamath, Y. K.
—; Dansizer, C. J.; Weigmann, H.-D.: Surface Wettability of Human Hair. II. Effect of Temperature on the Deposition of Polymers and Surfactants, 925
—; Dansizer, C. J.; Weigmann, H.-D.: Surface Wettability of Human Hair. III. Role of Surfactants in the Surface Deposition of Cationic Polymers, 937
Kamiya, Y. See Hirose, T., 401
Kanaoka, K. See Matsuda, H., 1229
Kandaswamy, N. R. See Deshpande, D. D., 2869
Kanetsuna, H. See Kaito, A., 1241
Karam, H. J.
—; Tien, L.: Analysis of Swelling of Crosslinked Rubber Gel with Occlusions, 1969
Karandikar, A. V. See Padhye, M. R., 667
Karasz, F. E. See Vukovic, R., 317
Karling, R. See Savolainen, A., 2095
Kaszonyiova, A. See Klasek, A., 515
Katakai, A. See Okamoto, J., 2967
Kato, H. See Tanigaki, K., 1419
Kawaguchi, Y. See Fukuda, A., 3943
Kennedy, J. P. See Bagrodia, S. R., 2179
Khune, G. D.
—; Donaruma, L. G.; Hatch, M. J.; Kilmer, N. H.; Shepitka, J. S.; Martin, F. D.: Modified Acrylamide Polymers for Enhanced Oil Recovery, 875
Kikuchi, Y.
—; Kubota, N.: Active Transport and Selective Transport of Alkali Metal Ions through Polyelectrolyte Complex Membranes Consisting of the Three Materials [2-(Diethylamino)ethyl]dextran Hydrochloride, Sodium Carboxymethyldextran, and Sulfate of Poly(vinyl Alcohol), 2565
Kilmer, N. H. See Khune, G. D., 875
Kirshenbaum, S. L.
—; Bell, J. P.: Matrix Viscoelasticity: Controlling Factor in the Rubber Toughening of Epoxy Resins, 1875
Kise, H.
—; Sugihara, M.; He, F.-F.: Electrical Conductivity of Chemically Dehydrochlorinated Poly(vinyl Chloride) Films Doped with Electron Acceptors, 1133
Klasek, A.
—; Bacakova, M.; Kaszonyiova, A.; Pavelka, F.: Bisulfite–Persulfate-Initiated Grafting of Methyl Methacrylate onto Gelatin, 515
Klempner, D. See Wang, C. L., 4337
Kobayashi, T. See Maruizumi, T., 487
Kobayashi, Y. See Otomo, S., 4201
Kojima, Y.
—; Furuhata, K.-I.; Miyasaka, K.: Sorption and Permeation of Iodine in Water-Swollen Poly(vinyl Alcohol) Membranes and Iodine Complex Formation, 1617
Kokufuta, E.
—; Watanabe, H.; Saito, K.; Nakamura, I.: Coordination Behavior of Cyanide Ion to Hemin Uncomplexed and Complexed with Several Synthetic Polymer Ligands, 3143
—; Watanabe, H.; Saito, K.; Nakamura, I.: Ternary Copolymers of Hemin, Styrene, and 1-Vinylimidazole or 1-Vinyl-2-methylimidazole as Cyanide Ion Exchanger, 3557
Kolawole, E. G.
—; Ebi, G.: Stabilization of Nigeria Natural (Havea) Rubber with Bound Antioxidant Added as Masterbatch, 571
Komiyama, J. See Kuramoto, N., 2847
Kondo, S. See Inagaki, N., 3385
Korat, D. R. See Chandorikar, M. V., 297
Koros, W. J. See Yang, D. K., 1035
Koshiba, M. See Speckhard, T. A., 647
Kova, V. T. See Lukas, R., 843
Kovacs, I. See Owolabi, O., 1827
Krejcar, E. See Seidl, J, 1741
Kronick, P. L.
—; Buechler, P.; Scholnick, F.; Artymyshyn, B.: Dynamic Mechanical Properties of Polymer–Leather Composites, 3095
Kubin, M. See Spacek, P., 143

Statistical Moments of Elution Bands and Their Application in Gel Permeation Chromatography of Polydisperse Macromolecules, 2237
Kubota, N. See Kikuchi, Y., 2565
Kukacka, L. E. See Sugama, T., 2137, 4357
Kulkarni, S. G. See Mukherjee, A. K., 4417
Kulshreshtha, A. K. See Tandon, P. N., 4235
—; Rao, M. V. S.; Dweltz, N. E.: Equatorial Small-Angle X-Ray Scattering Study of Porosity and Pore-Size Distribution in Polyester and Their Influence on Dyeing Behavior, 3423
Kumar, A. See Gupta, S. K., 445, 557
Kumar, D. See Gupta, A. D., 3879
Kumar, G. S.
—; Kalpagam, V.; Nandi, U. S.: Biodegradation of Gelatin Graft Copolymers. III, 609
—; Kalpagam, V.; Nandi, U. S.: Biodegradation of Gelatin Graft Copolymers. IV, 915
Kumar, S.
—; Salovey, R.: Enthalpy Relaxation of Filled Copolymers, 2315
Kumazawa, H. See Sada, E., 4113
Kuramoto, M. See Tanioka, A., 695
Kuramoto, N.
—; Sakamoto, M.; Komiyama, J.; Iijima, T.: Estimation of Interaction Between Polyanions and Bovine Serum Albumin by Means of Affinity Chromatography, 2847
Kurauchi, T. See Takahashi, H., 9006
Kuresevic, V. See Vukovic, R., 317
Kurup, M. R. See Gupta, S. K., 1095
Kwei, T. K. See Liu, W.-L., 2907
Kyu, T. See Sun, T., 251

Laccetti, A. J. See Dalven, P. I., 1113
Lai, J. H.
—; Douglas, R. B.; Chang, D. Y.: Characterization of Pressure-Sensitive Adhesives. II. Water Vapor Permeation Studies, 1167
Lal, K. See Jain, R. K., 897
Land, D. J. See Augl, J. M., 4203
Lane, J. W.
—; Seferis, J. C.; Bachmann, M. A.: Dielectric Studies of the Cure of Epoxy Matrix Systems, 9013
Langsam, M. See Cheng, J. T., 1365; Heffelfinger, M. T., 3377
—; Cheng, J. T.: Effect of Polymerization Conditions on the Melt Rheological Properties of Vinyl Chloride–Vinyl Acetate Copolymers, 1285
Lau, W. W. Y.
—; Burns, C. M.; Huang, R. Y. M.: Molecular Weights and Molecular Weight Distribution in Phase Equilibria of the Polystyrene-Poly(methyl methacrylate)-Toluene System, 1187
Laukhuf, W. L. S. See Plank, C. A., 2695
Lawler, T. E.
—; Drews, M. J.; Barker, R. H.: Pyrolysis and Combustion of Cellulose. VIII. Thermally Initiated Reactions of Phosphonomethyl Amide Flame Retardants, 2263
Lederer, K. See Choudhary, M. S., 4345
Lee, C. H.
—; Poh, B. T.: Temperature Dependence of Mooney Scorch Time of Rubber Compounds, 71
Lee, K.-W. See Cho, I., 1903
Lee, Y.-D.
—; Cheng, K.-C.: Effects of Poly(Methyl Methacrylate-co-*n*-Butyl Acrylate) on the Properties and Processing Behavior of Poly(Vinyl Chloride), 3605
Lefebvre, D. See Sun, T., 251
Legras, R. See Besso, E., 2821
Lenk, R. S. See Maguire, J. J., 3283
Lenka, S.
—; Nayak, P. L.; Das, A. P.: Graft Copolymerization onto Rubber. VII. Graft Copolymerization of Methyl Methacrylate onto Rubber Using Potassium Peroxydisulfate Catalyzed by Silver Ion, 2753
—; Nayak, P. L.; Das, A. P.; Mishra, S. N.: Grafting of Vinyl Monomers onto Natural Rubber. I. Graft Copolymerization of Methyl Methacrylate onto Natural Rubber Using Quinquevalent Vanadium Ion as the Initiator (Note), 429
—; Nayak, P. L.; Mohanty, I. B.; Mishra, S. N.: Graft Copolymerization onto Rubber. VI. Graft Copolymerization of Methyl Methacrylate onto Rubber Using Acetylacetonate Complex of Manganese(III) (Note), 2711
Lepie, A. H.
—; Moran, M. B.: A New Hydrostatic Compression Tester for Anisotropic Filled Polymers, 3153
Lepoutre, P. See Sapieha, S., 1257
Lewis, D. N. See Sugiyama, H., 2329
Li, C. See Yu, X., 2115
Lieu, Y. K. See Jang, B. Z., 3925
Lin, K.-F. See Mijovic, J., 2527
Lin, S. B. See Speckhard, T. A., 647
Ling, H.-C. See Vrentas, J. S., 9001
Lipatov, Yu. S. See Shilov, V. V., 1927
—; Petrenko, S. D.; Privalko, V. P.: Mechanical and Friction Properties of Glass-filled Thermoplastics Modified by Polyethylene Additives, 3451
Liu, W.-L.
—; Pearce, E. M.; Kwei, T. K.: The Synthesis and Properties of Tetrafunctional Epoxy Resins, 2907
Lloyd, D. R. See Tseng, H-S., 307, 1815
Lohse, F. See Berger, J., 531
Lok, K. P. See Croucher, M. D., 593
Louie, B. M.
—; Carratt, G. M.; Soong, D. S.: Modeling the Free Radical Solution and Bulk Polymerization of Methyl Methacrylate, 3985
—; Chiu, W. Y.; Soong, D. S.: Control of Free-Radical Emulsion Polymerization of Methyl Methacrylate by Oxygen Injection. I. Modeling Study, 3189
—; Franaszek, T.; Pho, T.; Chiu, W. Y.; Soong, D. S.: Control of Free-Radical Emulsion Polymerization of Methyl Methacrylate by Oxygen Injection. II. Experimental Study, 3841
—; Soong, D. S.: Optimization of Batch Polymerization Processes—Narrowing the MWD. I. Model Simulation, 3707
—; Soong, D. S.: Optimization of Batch Polymerization Processes—Narrowing the MWD. II. Experimental Study, 3825
Louie, M. See Chu, C.-C., 3133
Lukas, R.
—; Michalcova, J.; Kova, V. T.: Structural Heterogeneities of Suspension Poly(vinyl Chloride). II. Formation of Compact Glassy Particles and the Cause of Their Difficult Processing, 843
Luoto, K. See Tormala, P., 423

MacKnight, W. J. See Vukovic, R., 317
MacLaury, M. R.
—; Schroll, A. L.: Metals as Synergistic Fire Retardants in Polyethylene–Silicone Blends, 461
Macosko, C. W. See Matejka, L., 2787
Maebius, R. E.
The Effects of Heat Transfer in Melt Spinning, 1639
Maeda, H. See Egawa, H., 3239
Maeda, Y. See Chiou, J. S., 4019
Maerov, S. B.
Photopolymer Morphology: Phase Separation During Polymerization, 1499
Maguire, J. J.
—; Lenk, R. S.: Further Studies on Polyamides from Bisacid A2, 3283
Mahabadi, H. Kh.
Method for Gel Permeation Chromatography Calibration and the Evaluation of Mark–Houwink Constants, 1535
Maiti, M. M. See Bhattacharya, V. K., 1935
Maiti, S. See Bhattacharya, V. K., 1935; Dolui, S. K., 3867
Makuuchi, K. See Yoshii, F., 3339

Maldas, D. See Bhattacharyya, S. N., 151, 159
Manero, O. See Garcia-Rejon, A., 2941
Manjula, S.
—; Sudha, J. D.; Bera, S. C.; Pillai, C. K. S.: Polymeric Resin from Renewable Resources: Studies on Polymerization of the Phenolic Component of Coconut Shell Tar (Note), 1767
Manser, G. E. See Hardenstine, K. E., 2051; Jones, R. B., 95
Maranci, A.
Spinning of the Power Law Material (Note), 1327
Marianucci, E. See Pilati, F., 1267
Mark, J. E. See Ning, Y.-P., 3519
Markham, R. L. See Derringer, G. C., 9010
Marogi, A. See Al-Malaika, S., 789
Martin, F. D. See Khune, G. D., 875
Martz, P. See Vallat, M. F., 3953
Maruizumi, T.
—; Miyagi, H.; Takata, Y.; Kobayashi, T.: Characterization of Na Ion-Sensitive Solvent Polymeric Membranes Based on a Neutral Carrier, 487
Mashimo, S. See Ashida, M., 1011
Masiulanis, B.
—; Zielinski, R.: Mechanical, Thermal, and Electric Properties of Polyurethaneimide Elastomers, 2731
Masuda, T. See Takada, K., 1605
Masuko, T. See Yonetake, K., 3409
Matejicek, A. See Seidl, J, 1741
Matejka, L.
—; Houtman, C.; Macosko, C. W.: Polymerization of Dicyclopentadiene: A New Reaction Injection Molding System, 2787
Matsuda, H. See Okabe, M., 9008
—; Kanaoka, K.: Stability, Cure Properties, and Applicability as One Part Adhesives of Systems of Divalent Metal Salts of Mono(hydroxyethyl) Phthalate–Anhydride–Bisepoxide, 1229
Matsumura, S. See Inata, H., 3325
Matsuoka, T. See Takahashi, H., 9006
Matsuya, H. See Takada, K., 1605
Matsuzawa, S. See Yamaura, K., 3225
Maurice, A. M.
Surfactant Titration Technique: An Improved Approach for Determining Latex Adsorption Isotherm Endpoints, 473
Maximovich, M. G. See Dusi, M. R., 1847
McCluskey, J. A. See Hourston, D. J., 2157
McConvey, I. F. See McKay, G., 4325
McCormick, C. L.
—; Park, L. S.: Water-Soluble Copolymers. XI. Selectivity in the Graft Copolymerization of Acrylamide/*N*-(1,1-Dimethyl-3-Oxybutyl)acrylamide Comonomers onto Dextran by Ce(IV)-Induced Initiation, 45
McGrath, J. C. See Humphreys, J., 4069
McGrath, J. E. See Saraf, V. P., 2207; Yilgor, I., 1733
McIntyre, D. See Bhowmick, A. K., 2367
McKay, G.
—; Blair, H. S.; Gardner, J. G.; McConvey, I. F.: Two-Resistance Mass Transfer Model for the Adsorption of Various Dyestuffs onto Chitin, 4325
Meira, G. R. See Couso, D. A., 3249
Memory, J. D. See Netravali, A. N., 1573
Messiha, N. N. See Shaaban, A. F., 2031
Michalcova, J. See Lukas, R., 843
Mijovic, J.
—; Lin, K.-F.: The Effect of Hygrothermal Fatigue on Physical/Mechanical Properties and Morphology of Neat Epoxy Resin and Graphite/Epoxy Composite, 2527
—; Williams, J. G.; Donnellan, T.: Processing–Morphology–Property Relationships in Epoxy Resins, 2351
Mikesova, J. See Quadrat, O., 3585
Mikroyannidis, J. A.
—; Nir, Z.: Structural Modification of Brominated Epoxy Resins by Reaction with Phosphoric or Poly(phosphoric Acid), 83
Miller, T.
—; Westerlind, B.; Rigdahl, M.: Improvements in Strength of Polymer-Containing Cellulosic Networks by Heat Consolidation (Note), 3119
Mirza, F. A. See Mitsoulis, E., 1379
Misaki, T.
—; Iwatsu, T.: Effect of Boiling Water Aging on Strength and Fracture Properties of Chopped Strand Mat–Polyester Laminates, 1083
Mishra, M. K.
—; Bhadani, S. N.: Kinetics of Polymerization of Acrylamide with Nitrogen Dioxide (Note), 3113
—; Bhadani, S. N.: NO_2–Initiated Polymerization of Acrylamide in Dimethylsulfoxide, 723
Mishra, S. N. See Lenka, S., 429, 2711
Misra, A. K.
—; Pandey, G. N.: Kinetics of Alkaline-Catalyzed Cardanol–Formaldehyde Reaction. II. Mechanism of the Reaction, 969
—; Pandey, G. N.: Kinetics of Alkaline-Catalyzed Cardanol–Formaldehyde Reaction. III. Determination of Composition of the Resin, 979
Misra, B. M. See Ramachandhran, V, 35
Misra, B. N. See Sood, D. S., 135
Misra, S. B. See Tripathy, S. S., 1399
Mitani, K. See Ito, J., 497
Mitsoulis, E.
—; Vlachopoulos, J.; Mirza, F. A.: Simulation of Vortex Growth in Planar Entry Flow of A Viscoelastic Fluid, 1379
Mittal, K. L. See Suryanarayana, D., 3107
Miyagi, H. See Maruizumi, T., 487
Miyasaka, K. See Danno, T., 1219; Kojima, Y., 1617
Miyauchi, S.
—; Togashi, E.: The Conduction Mechanism of Polymer–Filler Particles, 2743
Miyazaki, K. See Hara, H., 9014
Miyoshi, T. See Takaku, A., 1565
Mizoguchi, K. See Hirose, T., 401
Mizumachi, H. See Takemura, A., 4031
Theory of Tack of Pressure-Sensitive Adhesive. I., 2675
Mizutani, K. See Tanigaki, K., 1419
Mizutani, Y. See Ito, J., 497
Mohan, D. See Gupta, S. K., 445
Mohanty, I. B. See Lenka, S., 2711
Moharram, M. A. See Hakeem, N. A., 4197; Rabie, S. M., 279
Mohsen, R. See Younan, M. Y. A., 1999
Montaudo, G.
—; Scamporrino, E.; Puglisi, C.; Vitalini, D.: Intumescent Flame Retardant for Polymers. III. The Polypropylene–Ammonium Polyphosphate–Polyurethane System, 1449
Moran, M. B. See Lepie, A. H., 3153
Morgan, R. J.
—; Walkup, C. M.; Hoheisel, T. H.: Differential Scanning Calorimetry Studies of the Cure of Carbon Fiber–Epoxy Composite Prepregs, 289
Mori, K.
—; Nakamura, Y.: Curing Reaction of Elastomers with Triazine Thiols and Sulfen Amides, 1049
Morita, Z.
—; Tanaka, T.; Motomura, H.: Diffusion/Adsorption Model of Cellulose Dyeing. II. Ordinary Cellulose–Direct Dye System, 3697
Motomura, H. See Morita, Z., 3697
Moustafa, A. B.
—; Badran, A. S.; Abd-El-Hakim, A. A.: Effect of Some Anions of Some Nickel Salts on the Aqueous Polymerization of Methyl Methacrylate, 1963
—; Sayyyah, S. M.; Badran, A. S.; Hassanin, M. S.: Characterization of Some Poly(methyl Methacrylate)s Prepared by Emulsion Polymerization in the Presence of Burnt Mazot Boiler Deposit (BMBD), 3443
Moynihan, H. J. See Peppas, N. A., 2589
Mrkvicakova, L.
—; Pokorny, S.: On the Reliability of Molecular Weight Determination by Vapor Pressure Osmometry, 1211

Mukherjee, A. K.
—; Gupta, B. D.: Radiation-Induced Graft Copolymerization of Methacrylic Acid onto Polypropylene Fibers. III. Characterization, 2253
—; Gupta, B. D.: Radiation-Induced Graft Copolymerization of Methacrylic Acid onto Polypropylene Fibers. I. Effect of Synthesis Conditions, 2643
—; Gupta, B. D.: Radiation-Induced Graft Copolymerization of Methacrylic Acid onto Polypropylene Fibers. II. Effect of Solvents, 2655
—; Gupta, B. D.: Radiation-Induced Graft Copolymerization of Methacrylic Acid onto Polypropylene Fibers. V. Mechanical Properties, 3365
—; Gupta, B. D.: Radiation-Induced Graft Copolymerization of Methacrylic Acid onto Polypropylene Fibers. IV. Thermal Behavior, 3479
—; Gupta, B. D.: Radiation-Induced Graft Copolymerization of Methacrylic Acid onto Polypropylene Fibers VI. Dyeing Behavior, 4455
—; Gupta, B. D.; Kulkarni, S. G.; Chauhan, D. S.; Chakravarty, S. N.: Effect of Heat Treatment on Nylon-6 Tire Cords, 4417
—; Sharma, P. K.: Coupling of Glass Fiber with Polypropylene by Gamma Radiation, 1707
Mulder, M. H. V.
—; Hendrikman, J. O.; Wijmans, J. G.; Smolders, C. A.: A Rationale for the Preparation of Asymmetric Pervaporation Membranes, 2805
Munari, S. See Bottino, A., 3009
Munns, T. E. See Stark, E. B., 1717
Murai, M. See Nishida, N., 1333
Murakami, T. See Tamai, H., 3857
Murali, R. See Achwal, W. B., 4297
Murphy, C. J. See Hardenstine, K. E., 2051; Jones, R. B., 95
Muthiah, Rm. See Gupta, S. K., 1095

Nadiger, G. S.
—; Bhat, N. V.: Effect of Plasma Treatment on the Structure and Allied Textile Properties of Mulberry Silk, 4127
—; Bhat, N. V.; Padhye, M. R.: Investigation of Amino Acid Composition in the Crystalline Region of Silk Fibroin, 221
Nadkarni, V. M. See Jog, J. P., 997
Na≪ac05e, H. N.
—; Vofsi, D.: Hydroxyl-Terminated Cotelomers of Butadiene and Bromostyrene, 1893
Nagamatsuya, K. See Yonetake, K., 3409
Nagarajan, M. R. See Yu, X., 2115
Nakamura, I. See Kokufuta, E., 3143, 3557
Nakamura, T. See Ito, M., 3493
Nakamura, Y. See Mori, K., 1049
Nakano, J. See Isogai, A., 345
Nakaya~a, K. See Kaito, A., 1241
Namai, Y. See Iisaka, K., 3397
Nandi, U. S. See Kumar, G. S., 609, 915
Narang, S. C. See Gu, J., 2997
Narebska, A. See Wodzki, R., 769
Nath, S. See Gupta, S. K., 557
Nayak, P. L. See Lenka, S., 429, 2711, 2753
Nelson, E. C.
Free-Radical Grafting of Cellulose in *N*-Methylmorpholine Oxide: Water-Soluble Pam-*g*-Cellulose Copolymers, 2779
Netravali, A. N.
—; Fornes, R. E.; Gilbert, R. D.; Memory, J. D.: Effects of Water Sorption at Different Temperatures on Permanent Changes in an Epoxy, 1573
Newey, H. A.
—; Busso, C. J.; Wedgewood, A. R.; Beck, T. R.: Transport and Related Properties of Paint Films. I. Composition and Structure, 675
Ng, C. S. C. H. C.
Correlation of Flexural Modulus and Apparent Density of Extruded Polystyrene Foam Sheets (Note), 3515
Nierzwicki, W.
Overall NCO/OH Ratio and Microphase Separation in Urethane Elastomers, 761
Ning, Y.-P.
—; Mark, J. E.: Precipitation of Reinforcing Filler Into Polydimethylsiloxane Prior to Its End Linking Into Elastomeric Networks (Note), 3519
Nioch, W. K. See Wodzki, R., 769
Nir, Z. See Mikroyannidis, J. A., 83
Nishida, N.
—; Murai, M.; Sasaki, N.: Viscoelastic and Thermoelastic Properties of General Purpose Commercial Vulcanized Natural Rubber, 1333
Nix, E. L. See Humphreys, J., 4069
Nofal, E. E. See Abu-Zeid, M. E., 3791
Noguchi, T. See Ashida, M., 1011
Nomura, M. See Tsujita, Y., 2723
Nonaka, T. See Egawa, H., 3239

Odozi, T.
—; Emelike, R.: The Sorption of Heavy Metals with Corncob Hydroxylate–Red Onion Skin Resins (Note), 2715
Ogasawara, T. See Tanigaki, K., 1419
Ogiwara, Y. See Arai, K., 3051
Ohnishi, Y. See Tanigaki, K., 1419
Ohno, M. See Tanioka, A., 695
Ohotsuki, Y. See Hara, H., 9014
Oikawa, E.
—; Igarashi, Y.; Tsurumaki, S.: Characterization of Reverse Osmosis Membranes Prepared from the Oxime of Poly(4-Vinylpyridine-Co-Methyl Vinyl Ketone), 1511
Okabe, M.
—; Isayama, M.; Matsuda, H.: Phenomenological Study on Sol–Gel Transition of Linear Low Density Polyethylene in Organic Solvents, 9008
Okamoto, J. See Omichi, H., 1277
—; Sugo, T.; Katakai, A.; Omichi, H.: Amidoxime-Group-Containing Adsorbents for Metal Ions Synthesized by Radiation-Induced Grafting, 2967
Okano, T.
—; Sarko, A.: Mercerization of Cellulose. II. Alkali–Cellulose Intermediates and a Possible Mercerization Mechanism, 325
Okay, O.
—; Soner, E.; Gungor, A.; Balkas, T. I.: Phase Separation in the Synthesis of Styrene–Divinylbenzene Copolymers with Di-2-Ethylhexyl Phthalate as Diluent, 2065
Omichi, H. See Okamoto, J., 2967
—; Okamoto, J.: Effect of Mixed Monomers on the Synthesis of Ion-Exchange Membranes by Radiation-Induced Grafting, 1277
—; Stannett, V. T.: Radiation-Induced Grafting of Methacrylic Acid onto Polyurethane in the Presence of Solvents, 3059
Orii, S. See Hara, H., 9014
Osterhoudt, H. W. See Chen, S. P., 2075
Otomo, S.
—; Kobayashi, Y.; Sako, T.; Yamamoto, Y.; Yamashita, S.: Studies of Tetrazoles as Rubber Chemicals. II. Reactivities and Antioxidation Activities of Reactive Antioxidants Based on Tetrazoles (Erratum), 4201
Otterburn, M. S. See Guthrie, J., 2863
Owolabi, O.
—; Czvikovszky, T.; Kovacs, I.: Coconut-Fiber-Reinforced Thermosetting Plastics, 1827

Paakkonen, E. See Tormala, P., 423
Padhi, N. P. See Tripathy, S. S., 1399
Padhye, M. R. See Nadiger, G. S., 221
—; Karandikar, A. V.: The Effect of Alkali Salt on Solvent–Polyacrylonitrile Interaction, 667

Paipetis, S. A.
Comments on "Glass Transition Behaviour of Particle Composites Modelled on the Concept of Interphase" by P. S. Theocaris and G. D. Spathis (Note), 2687
Pal, D. See Dolui, S. K., 3867
Palumbo, R. See Botta, A., 1669
Pandey, G. N. See Misra, A. K., 969, 979
Papazian, H. A.
Mechanical Properties of Polymers under Electron Irradiation, 3233
Park, L. S. See McCormick, C. L., 45
Parpaillon, M.
—; Engstrom, G.; Pettersson, I.; Fineman, I.; Svanson, S. E.; Dellenfalk, B.; Rigdahl, M.: Mechanical Properties of Clay Coating Films Containing Styrene–Butadiene Copolymers, 581
Pascault, J.-P. See Bartlet, P., 2955
Patil, N. B. See Iyer, P. B., 435
Patil, N. J. See Shinde, B. M., 3505
Paul, D. R. See Chiou, J. S., 1173, 2633, 3911, 4019; El-Hibri, M. J., 3649; Woo, E. M., 4243
Pavelka, F. See Klasek, A., 515
Pearce, E. M. See Gu, J., 2997; Liu, W.-L., 2907
Peng, X.
—; Gillham, J. K.: Time–Temperature–Transformation (TTT) Cure Diagrams: Relationship Between T_g And the Temperature and Time of Cure for Epoxy Systems, 9003
Peppas, N. A. See Barr-Howell, B. D., 9005; Robert, C. C. R., 301
—; Moynihan, H. J.: Solute Diffusion in Swollen Membranes. IV. Theories for Moderately Swollen Networks, 2589
Perera, M. C. S. See Bradbury, J. H., 3347
Perez, F. See Arroyo, M., 2475
Peszkin, P. N.
—; Schultz, J. M.: Kinetics of Fiber Heat Treatment. I. Experimental Apparatus (Note), 2689
Peterlin, A. See De Candia, F., 4159
Petrenko, S. D. See Lipatov, Yu. S., 3451
Pettersson, I. See Parpaillon, M., 581
Pezzutti, J. L.
—; Porter, R. S.: Uniaxial Orientation of Linear Low Density Polyethylene, 4251
Philipp, B. See Fink, H.-P., 3779
Pho, T. See Louie, B. M., 3841
Piccarolo, S. See Titomanlio, G., 1587
Pikalov, V. L. See Shilov, V. V., 1927
Pilati, F.
—; Marianucci, E.; Berti, C.: Study of the Reactions Occurring during Melt Mixing of Poly(ethylene Terephthalate) and Polycarbonate, 1267
Pillai, C. K. S. See Manjula, S., 1767
Pillai, P. K. C. See Rashmi, 3891
Plank, C. A.
—; Laukhuf, W. L. S.; Ranade, G. R.: Adsorption Potential Correlation for Dual-Mode Sorption Systems (Note), 2695
Podkoscielny, W.
—; Wdowicka, D.: Linear Polythioesters. X. Products of Interfacial Polycondensation of Bis(4-Mercaptophenyl)ether with Izomeric Phthaloyl Chlorides, 1579
Poh, B. T. See Lee, C. H., 71
Pokorny, S. See Mrkvicakova, L., 1211
Poliszko, S.
—; Hoffmann, G.: Dielectric Behavior of Wood–Polystyrene Composite, 799
Porter, R. S. See Benelhadjsaid, C., 741; Pezzutti, J. L., 4251; Sun, T., 251
Privalko, V. P. See Lipatov, Yu. S., 3451
Prokopova, E. See Quadrat, O., 3579, 3585
Prut, E. V. See Enikolopian, N. S., 2291
Puglisi, C. See Montaudo, G., 1449
Pundsack, A. L. See Croucher, M. D., 593
Purwar, S. N. See Gupta, A. K., 1777, 1799

Quadrat, O.
—; Mikesova, J.; Prokopova, E.: Solvent Power Effect on Graessley's Time Constant in Concentrated Polystyrene Solutions, 3585
—; Prokopova, E.: Determination of Graessley's Relaxation Time in Concentrated Polymer Solutions and Melts, 3579

Rabie, S. M.
—; Moharram, M. A.; Daghistani, A. Y.: Infrared Study of Combined Effect of γ-Radiation and Elevated Temperature on Poly(vinyl Chloride), 279
Rabiej, S. See Wlochowicz, A., 1653
Radhakrishnan, T. S. See Rao, M. R., 855
Raje, H. M. See Datye, K. V., 205
Ram, A.
—; Izrailov, L.: Shear Modification of Polyethylene, 9002
Ramachandhran, V
—; Misra, B. M.: Studies on the Radiolytic Degradation of Cellulose Acetate Membranes, 35
Ramaswamy, R.
—; Achary, P. S.: Effect of Curing Agents on Some Properties of a Polysulfide Sealant, 3569
Rampalli, S. See Bhowmick, A. K., 2367
Ranade, G. R. See Plank, C. A., 2695
Rancourt, J. D.
—; Taylor, L. T.: Metal Ion Additive–Polyimide Interactions Employing Thermogravimetry, 4149
Rangel-Nafaile, C. See Garcia-Rejon, A., 2941
Rao, B. S. See Goel, T. C., 1491
Rao, M. R.
—; Radhakrishnan, T. S.: Thermal Degradation of Liquid Polysulfide Polymers: Pyrolysis–GC–MS and Thermogravimetric Studies, 855
Rao, M. V. S. See Chauhan, R. S., 19; Kulshreshtha, A. K., 3423
Rashmi
—; Pillai, P. K. C.: Use of Thermogravimetry in the Study of Polymer–Solvent Interactions near Glass Transition Temperature, 3891
Rawat, B. R. See Sood, D. S., 135
Ray, A.
—; Shenoy, A. V.: PVC Calendering: A Simplified Prediction Technique, 1
Ray, A. K.
—; Gupta, S. K.: Optimization of Nonvaporizing Nylon 6 Reactors with Stopping Conditions, 9004
Ray, W. H. See Choi, K. Y., 1065
Reardon, J. P. See Walton, T. R., 2921
Reddy, C. R. See Anbazhagan, K., 391
Reed, J. L. See Jada, S. S., 1309
Reichert, K. H. See Taylor, T. W., 227
Renschler, C. L.
Photodegradation Kinetics of Methyl Salicylate in Poly(methyl Methacrylate) (Erratum), 2721
Rich, M. J. See Gupta, V. B., 4467
Rigdahl, M. See Miller, T., 3119; Parpaillon, M., 581
Rim, P. B.
—; Runt, J.: Mechanical Behavior of Poly(ε-Caprolactone)/Poly(styrene-Co-Acrylonitrile) Blends, 1545
Robert, C. C. R.
—; Buri, P. A.; Peppas, N. A.: Effect of Degree of Crosslinking on Water Transport in Polymer Microparticles, 301
Robeson, L. M.
Phase Behavior of Polyarylate Blends, 4081
Rochette, B. See Ferradou, C., 2663
Rodriguez, F.
—; Chu, C. H.; Chu, W. T. W. K.; Rondinella, M. A.: Adiabatic Photopolymerization of Acrylamide, 1629
Roland, C. M.
—; Bohm, G. G. A.; Sadhukhan, P.: The Structure of Azoester-Modified Polybutadiene Elastomers, 2021
Romano, G. See De Candia, F., 4159
Rondinella, M. A. See Rodriguez, F., 1629

Rong, S.-D.
—; Williams, H. L.: Dynamic Mechanical Measurements on Monofilaments, 2575
Rongshi, C. See Baogong, Q., 375
Rooney, J. M. See Guthrie, J., 2863
Roy-Chowdhury, P.
—; Deuskar, V. D.: Rheological Properties of Concentrated Polymer Solution: Polybutadiene in Good and θ Solvents, 9012
Rudin, A. See Ajji, A., 731, 1695; Bugada, D. C., 4137; Grinshpun, V., 2413; Teh, J. W., 1345
Runt, J. See Rim, P. B., 1545
—; Hanrahan, B. D.: Influence of Morphology on the Fatigue Properties of Polypropylene (Note), 4495
Rutkowska, M.
—; Eisenberg, A.: Ion Pair–Ion Pair and Ion–Dipole Interactions in Polyurethane–Styrene Blends, 3317
Rybnikar, F.
Selective Etching of Polyolefines. I. Isotactic Polypropylene, 1949

Sacher, E.
—; Susko, J. R.: Water Permeation in Polymer Films. VII. Polyimide/Teflon FEP Laminates, 1393
Sada, E.
—; Kumazawa, H.; Ando, T.: Chemical Engineering Aspects of Reactive Dyeing, 4113
Sadhukhan, P. See Roland, C. M., 2021
Saigo, K. See Tanigaki, K., 1419
St. Clair, T. L. See Burks, H. D., 2401
Saito, J. See Hara, J., 1461
Saito, K. See Kokufuta, E., 3143, 3557
Sakamoto, M. See Kuramoto, N., 2847
Sako, T. See Otomo, S., 4201
Salem, M. A. See Shaaban, A. F., 2031
Salovey, R. See Kumar, S., 2315
Santamaria, A.
—; White, J. L.: Rheological Properties, Shrinkage and Melt Spinning Instability of Blends of Linear Polyolefins with Low Density Polyethylene, 9009
Sapieha, S.
—; Inoue, M.; Lepoutre, P.: Conductivity and Water Sorption in Paper, 1257
Saraf, V. P.
—; Glasser, W. G.; Wilkes, G. L.: Engineering Plastics from Lignin. VII. Structure Property Relationships of Poly(butadiene Glycol)-Containing Polyurethane Networks, 3809
—; Glasser, W. G.; Wilkes, G. L.; McGrath, J. E.: Engineering Plastics from Lignin. VI. Structure–Property Relationships of PEG-Containing Polyurethane Networks, 2207
Sarko, A. See Okano, T., 325
Sasaki, N. See Nishida, N., 1333
Sasaki, T. See Yoshii, F., 3339
Sautereau, H. See Bartlet, P., 2955
Savolainen, A.
—; Karling, R.: The Influence of Screw Geometry on the Extrusion of Soft PVC, 2095
Sayyyah, S. M. See Moustafa, A. B., 3443
Scamporrino, E. See Montaudo, G., 1449
Scholnick, F. See Kronick, P. L., 3095
Schreiber, H. P. See Ajji, A., 731, 1695; Teh, J. W., 1345
Schroll, A. L. See MacLaury, M. R., 461
Schultz, J. See Vallat, M. F., 3953
Schultz, J. M. See Peszkin, P. N., 2689
Scott, G. See Al-Malaika, S., 789; Chakraborty, K. B., 3267; Chakroborty, K. B., 189
Seferis, J. C. See Lane, J. W., 9013; Stark, E. B., 1717; Wedgewood, A. R., 111
Seidl, J
—; Matejicek, A.; Krejcar, E.; Horky, J.: Alkaline Hydrolysis of Ethyl Acrylate–Acrylonitrile–Divinylbenzene Copolymer Beads, 1741
Seppala, J. V.
Copolymers of Ethylene with Butene-1 and Long Chain α-Olefins. I. Decene-1 as Long Chain α-Olefin, 3545
Serna, F. J.
—; De Abajo, J.; De La Campa, J. G.: Crosslinkable Polyamide–Imides, 61
Shaaban, A. F.
—; Salem, M. A.; Messiha, N. N.: Unsaturated Polyesters. II. Structure and Properties of Polyester Resins Based on Cinnamylsuccinic Acid, 2031
Shamir, A. See Dalven, P. I., 1113
Sharma, P. K. See Mukherjee, A. K., 1707
Sharma, R. C. See Gupta, D. C., 4287
Sheng, J. See Sun, T., 251
Shenoy, A. V. See Ray, A., 1
Shentian, L. See Baogong, Q., 375
Shepitka, J. S. See Khune, G. D., 875
Shestopal, V. O. See Shuttleworth, R. W., 333
Shih, S. W. F. See Hsiue, G.-H., 1659
Shilov, V. V.
—; Gomza, Yu. P.; Bliznyuk, V. N.; Lipatov, Yu. S.; Boguslavsky, D. B.; Pikalov, V. L.; Suvorova, Z. F.: Heterogeneous Structure of *cis*-Isoprene Rubber and Oligodiene Diisocyanate Blends, 1927
Shimura, Y. See Tashiro, T., 985
Shinde, B. M.
—; Ghatge, N. D.; Patil, N. J.: Studies in the Synthesis of Diisocyanates and Polyimides Therefrom (Note), 3505
Shinohara, I. See Itoh, T., 179
Shuttleworth, R. W.
—; Shestopal, V. O.; Goss, P. C.: Open-Cell Flexible Polyurethane Foams: Comparison of Static and Dynamic Compression Properties, 333
Sikkema, D. J.
Carboxymethyl-Cellulose-Grafted with Dextrin Synthesis and Solution Rheology, 3523
Simal, A. L.
—; Bell, J. P.: Dye Leveling in PET Fibers. I. The Effect of Fiber Morphology and Carrier, 1195
—; Bell, J. P.: Dye Leveling in PET Fibers. II. Mathematical Model, 1679
Singh, B. C. See Tripathy, S. S., 1399
Singh, R. P. See Deshmukh, S. R., 4013
Smigielski, P. See Vallat, M. F., 3953
Smith, G. C. See Guise, G. B., 4099
Smith, M. V. See Coulter, D. R., 1753
Smolders, C. A. See Mulder, M. H. V., 2805
Soner, E. See Okay, O., 2065
Sood, D. S.
—; Rawat, B. R.; Misra, B. N.: Grafting onto Wool. XXIII. Graft Copolymerization of Methyl Methacrylate by Use of Chromium Acetyl Acetonate–Perchloric Acid System: Effect of Tertiary Butyl Hydroperoxide, 135
Soong, D. S. See Louie, B. M., 3189, 3707, 3825, 3841, 3985
Spacek, P.
—; Kubin, M.: Investigation of Block Copolymer Micellization by High-Performance Size-Exclusion Chromatography, 143
Speckhard, T. A. See Yu, X., 2115
—; Hwang, K. K. S.; Lin, S. B.; Tsay, S. Y.; Koshiba, M.; Ding, Y. S.; Cooper, S. L.: Properties of UV-Curable Polyurethane Acrylates: Effect of Reactive Diluent, 647
Sperling, L. H. See Hardenstine, K. E., 2051; Jones, R. B., 95
Spruiell, J. E. See Cakmak, M., 3679; Fu-Min, L., 1859; Hong, K.-B., 3163
Squires, T. G. See Barr-Howell, B. D., 9005
Stahel, E. P. See Challa, R. R., 4261
Stannett, V. T. See Challa, R. R., 4261; Omichi, H., 3059; Yang, D. K., 1035
Stark, E. B.
—; Ibrahim, A. M.; Munns, T. E.; Seferis, J. C.: Moisture Effects during Cure of High-Performance Epoxy Matrices, 1717
Steck, A. E. See Besso, E., 2821

—; Yeager, H. L.; Harris, F. W.; Eisenberg, A.; Besso, E.; Gupta, R. K.: Aromatic Ionomer Membranes: II. Evaluation as Separators for Advanced Alkaline Water Electrolyzers, 2837
Stein, R. S. See Sun, T., 251
Stiel, L. I.
—; Chang, D.-K.; Chu, H.-H.; Han, C. D.: The Solubility of Gases and Volatile Liquids in Polyethylene and Polyisobutylene at Elevated Temperatures, 1145
Sudha, J. D. See Manjula, S., 1767
Sugama, T.
—; Kukacka, L. E.; Carciello, N.; Warren, J. B.: Adhesion Aspects of Levulinic-Acid-Modified Furan Polymers To Crystalline Zinc Phosphate Metal Surfaces, 2137
—; Kukacka, L. E.; Carciello, N.; Warren, J. B.: Polyacrylic Acid Macromolecule–Complexed Zinc Phosphate Crystal Conversion Coatings, 4357
Sugihara, M. See Kise, H., 1133
Sugiyama, H.
—; Lewis, D. N.; White, J. L.; Fellers, J. F.: Structural Characteristics, Rheological Properties, Extrusion, and Melt Spinning of 60/40 Poly (Hydroxybenzoic Acid-Coethylene Terephthalate) (PHB/PET), 2329
Sugo, T. See Okamoto, J., 2967
Sumitomo, T. See Tsujita, Y., 2723
Sun, T.
—; Kyu, T.; Sheng, J.; Lefebvre, D.; Stein, R. S.; Porter, R. S.: Optical Characterization of Solid-State Coextruded PET, 251
Sundelof, L.-O. See Wirbrant, A., 3123
Suryanarayana, D.
—; Mittal, K. L.: Effect of Polyimide Thickness on Its Adhesion to Silicon Nitride Substrate with and without Adhesion Promoter (Note), 3107
Susko, J. R. See Sacher, E., 1393
Suvorova, Z. F. See Shilov, V. V., 1927
Suzawa, T. See Tamai, H., 3857
Svanson, S. E. See Parpaillon, M., 581

Tahseen, L. A. See Abu-Zeid, M. E., 3791
Takada, K.
—; Matsuya, H.; Masuda, T.; Higashimura, T.: Gas Permeability of Polyacetylenes Carrying Substituents, 1605
Takahashi, H.
—; Matsuoka, T.; Kurauchi, T.: Rheology of Polymer Melts in High Shear Rate, 9006
Takaku, A.
—; Hashimoto, T.; Miyoshi, T.: Tensile Properties of Carbon Fibers from Acrylic Fibers Stabilized under Isothermal Conditions, 1565
Takata, Y. See Maruizumi, T., 487
Takemura, A.
—; Tomita, B.-I.; Mizumachi, H.: Dynamic Mechanical Properties and Adhesive Strengths of Epoxy Resins Modified with Liquid Rubber. I. Modification with ATBN, 4031
Takiguchi, R.
—; Uryu, T.: Polymeric Reaction of Acrylic Polymer–Monomer System Irradiated by Low Energy Electron Beam. I. Effects of Molecular Weight of Polymer and Polymer-to-Monomer Ratio, 709
—; Uryu, T.: Polymeric Reaction of Acrylic Polymer–Monomer System Irradiated by Low-Energy Electron Beam. II. Effect of Ester Structure of Acrylic Polymer, 3961
Takizawa, A. See Tsujita, Y., 2723
Tamai, H.
—; Murakami, T.; Suzawa, T.: Surface Characterization of Styrene/Acrylamide Copolymer Latex Particles, 3857
Tamura, N. See Yoshii, F., 3339
Tanaka, K. See Ito, M., 3493
Tanaka, S. See Hara, J., 1461
Tanaka, T. See Morita, Z., 3697
Tandon, P. N.
—; Kulshreshtha, A. K.: A Rheological Study of Laminar–Turbulent Transition in Drag Reducing Polymeric Solutions, 4235
Tanigaki, K.
—; Saigo, K.; Ohnishi, Y.; Kato, H.; Mizutani, K.; Ogasawara, T.; Endo, T.: Behavior of Polymers Containing Spiroorthoester or Bicycloorthoester Structure under EB and X-Ray Irradiation Conditions, 1419
Tanioka, A.
—; Ishikawa, K.; Kakuta, A.; Kuramoto, M.; Ohno, M.: Pore Size Evaluation for Fine Porous Freeze-Dried Cellulose Acetate Membrane by Gas Separation, 695
Tashiro, T.
Removal of Nonionic Surfactant by Systems Based on Chloromethylated Polystyrene–Poly(ethylene Glycol), 3767
—; Shimura, Y.: Removal of Nonionic Surfactant by Systems Based on Polystyrene–Polyoxyethylene Block Copolymers, 985
Taylor, L. T. See Rancourt, J. D., 4149
Taylor, T. W.
—; Reichert, K. H.: The Influence of Reactor Type and Operating Conditions on the Molecular Weight Distribution in Vinyl Acetate Polymerization, 227
Teh, J. W. See Ajji, A., 731
—; Rudin, A.; Schreiber, H. P.: Shear Modification of Low Density Polyethylene, 1345
Teramae, N. See Hara, J., 1461
Theocaris, P. S.
The Unfolding Model for the Representation of the Mesophase Layer in Composites, 621
—; Varias, A. G.: Thermal Expansion Properties of Particulates Based on the Concept of Mesophase, 2979
Thomas, S. See Gupta, S. K., 1095
Tien, L. See Karam, H. J., 1969
Titomanlio, G.
—; Piccarolo, S.: Mechanism of Void Formation in Cable Covering, 1587
Tiwari, V. K. See Deshpande, D. D., 2869
Togashi, E. See Miyauchi, S., 2743
Tomita, B.-I. See Takemura, A., 4031
Tormala, P.
—; Paakkonen, E.; Luoto, K.: Injection Molding and Extrusion of Composites of Low Density Polyethylene (LDPE) and Plywood Grindings (Note), 423
Toya, H. See Itoh, T., 179
Tripathi, A. See Goel, T. C., 1491
Tripathy, S. S.
—; Jena, S.; Misra, S. B.; Padhi, N. P.; Singh, B. C.: A Study on Graft Copolymerization of Methyl Methacrylate onto Jute Fiber, 1399
Tsang, C. N. See Guthrie, J., 2863
Tsay, F.-D. See Coulter, D. R., 1753
Tsay, S. Y. See Speckhard, T. A., 647
Tse, M.-F.
Physical Properties of Barium Titanate-Filled Rubber-Modified Epoxies, 3625
Tseng, H-S.
—; Lloyd, D. R.; Ward, T. C.: Correlation of Solubility in Polydimethylsiloxane and Polyisobutylene Systems, 307
—; Lloyd, D. R.; Ward, T. C.: Solubility of Nonpolar and Slightly Polar Organic Compounds in Low-Density Polyethylene by Inverse Gas Chromatography with Open Tubular Column, 1815
Tsubokawa, N.
Cationic Grafting from Carbon Black. III. Grafting of Polyesters from Carbon Black by Ring-Opening Polymerization of Lactones Initiated by $CO^{+}ClO_{-4}$ Groups on Carbon Black, 2041
Tsujita, Y.
—; Sumitomo, T.; Nomura, M.; Takizawa, A.: Gas Sorption and Permeation of Poly(γ-methyl Glutamate), 2723

Tsurumaki, S. See Oikawa, E., 1511

Uhlmann, D. R. See Jang, B. Z., 2485
Uno, T. See Agari, Y., 2225
Urushibata, H. See Inagaki, N., 3385
Uryu, T. See Takiguchi, R., 709, 3961

Vallat, M. F.
—; Smigielski, P.; Martz, P.; Schultz, J.: The Application of Coherent Optics to the Study of Adhesive Joints II. Holographic Interferometry, 3953
Vander Sande, J. B. See Jang, B. Z., 2485
Vantelon, J. P. See Gaboriaud, F., 3531
Varias, A. G. See Theocaris, P. S., 2979
Varma, I. K. See Goel, T. C., 1491
Verdu, J. See Bellenger, V., 363
Vergnaud, J. M. See Ferradou, C., 2663
Vigo, T. L. See Wei, K. Y., 1523
Vitalini, D. See Montaudo, G., 1449
Vittoria, V. See De Candia, F., 4159
Vlachopoulos, J. See Mitsoulis, E., 1379
Vofsi, D. See Na≪ac05e, H. N., 1893
Vrentas, J. S.
—; Duda, J. L.; Ling, H.-C.: Enhancement of Impurity Removal from Polymer Films, 9001
Vu Khue, N.
—; Galin, J. C.: Antiinflammatory Polymer-Bound Steroids for Topical Applications. I. Synthesis and Characterization, 2761
Vukovic, R.
—; Kuresevic, V.; Karasz, F. E.; MacKnight, W. J.: Thermally Induced Phase Separation in Homogeneous Blends of Poly(2,6-Dimethyl-1,4-Phenylene Oxide) with Poly(*o*-Fluorostyrene-co-*p*-Chlorostyrene) and with Poly(*o*-Fluorostyrene-co-*o*-Chlorostyrene), 317

Walkup, C. M. See Morgan, R. J., 289
Walton, T. R.
—; Griffith, J. R.; Reardon, J. P.: Electrically Conducting Polymers From Conjugated Bis-Phthalonitrile Monomers, 2921
Wang, C. L.
—; Klempner, D.; Frisch, K. C.: Morphology of Polyurethane–Isocyanurate Elastomers, 4337
Wang, Y.
—; Cakmak, M.; White, J. L.: Structure Development in Melt Spinning Poly(vinylidene Fluoride) Fibers and Tapes, 2615
Wanjun, R. M. Z. See Baogong, Q., 375
Ward, I. M. See Humphreys, J., 4069
Ward, T. C. See Tseng, H-S., 307, 1815
Warfield, R. W.
Electrical Resistivity of a Polyamide–Epoxide Copolymer (Note), 1321
Warren, J. B. See Sugama, T., 2137, 4357
Watanabe, H. See Kokufuta, E., 3143, 3557
Wdowicka, D. See Podkoscielny, W., 1579
Wedgewood, A. R. See Newey, H. A., 675
—; Seferis, J. C.; Beck, T. R.: Transport and Related Properties of Paint Films. II. Dynamic Mechanical Properties and Humidity Effects, 111
Wei, K. Y.
—; Vigo, T. L.; Goswami, B. C.: Structure–Property Relationships of Thermally Bonded Polypropylene Nonwovens, 1523
Weigmann, H.-D. See Kamath, Y. K., 925, 937
Westerlind, B. See Miller, T., 3119
Whicher, S. J.
—; Brash, J. L.: Block Copolymers of *n*-Propyl *p*-Styrene Sulfonate with Isoprene and Styrene: Synthesis, Characterization, and Phase Separation Behavior, 2297
White, J. L. See Cakmak, M., 3679; Santamaria, A., 9009; Sugiyama, H., 2329; Wang, Y., 2615
Widmaier, J. M. See Friedmann, G., 755
Wijmans, J. G. See Mulder, M. H. V., 2805
Wildman, G. C.
—; Hsu, S.-J. R.: Effect of Solvent Balance on the Surface Properties of Poly(vinyl chloride), 4385
Wilkes, G. L. See Bagrodia, S. R., 2179; Saraf, V. P., 2207, 3809
Wilkinson, M. C. See Chainey, M., 4273
Williams, H. L. See Rong, S.-D., 2575
Williams, J. G. See Mijovic, J., 2351
Wirbrant, A.
—; Sundelof, L.-O.: Diffusion of Toluene Sulfonic Acid in Nylon Film, 3123
Wlochowicz, A.
—; Janicki, J.; Rabiej, S.: Analysis of the Theoretical Methods of Calculations of Ideal Fiber Birefringences, 1653
Wodzki, R.
—; Narebska, A.; Nioch, W. K.: Percolation Conductivity in Nafion Membranes, 769
Wojcik, A. B.
Porous Bead Aliphatic–Aromatic Methacrylate Copolymers III. The Effect of Diluent on Porous Structure Formation of MMA–DMN Copolymers, 781
Wong, R. W. See Croucher, M. D., 593
Woo, E. M.
—; Barlow, J. W.; Paul, D. R.: Phase Behavior of Polycarbonate Blends with Selected Halogenated Polymers, 4243
Wortmann, F.-J.
—; De Jong, S.: Nonlinear Viscoelastic Behavior of Wool Fibers in a Single Step Reiaxation Test, 2195

Yaghmour, H. See Chakraborty, K. B., 3267; Chakroborty, K. B., 189
Yamamoto, Y. See Otomo, S., 4201
Yamashita, S. See Otomo, S., 4201
Yamaura, K.
—; Matsuzawa, S.: Properties of Syndiotacticity-rich Poly(vinyl Alcohol) Thin Film in Water. II. Effect of the Annealing Temperature on the Extension of Thin Film in Water, 3225
Yanazawa, H.
—; Hasegawa, N.; Douta, K.; Hashimoto, N.: Double Exposure Stabilization of Positive Photoresist, 547
Yang, C.-P.
—; Hsiao, S.-H.: Effects of Various Factors on the Formation of High Molecular Weight Polyamic Acid, 2883
Yang, D. K.
—; Koros, W. J.; Hopfenberg, H. B.; Stannett, V. T.: Sorption and Transport Studies of Water in Kapton Polymide. I, 1035
Yang, H.-H.
—; Han, C. D.: Foam Extrusion Characteristics of Thermoplastic Resin with Fluorocarbon Blowing Agent. III. Foam Sheet Extrusion of Polystyrene and Low-Density Polyethylene, 3297
Yanshou, Z. See Baogong, Q., 375
Yeager, H. L. See Besso, E., 2821; Steck, A. E., 2837
Yilgor, I.
—; McGrath, J. E.: Effect of Catalysts on the Reaction between A Cycloaliphatic Diisocyanate (H-MDI) and *n*-Butanol, 1733
Yokota, H.
The Mechanism of Cellulose Alkalization in the Isopropyl Alcohol–Water–Sodium Hydroxide–Cellulose System, 263
Yonetake, K.
—; Nagamatsuya, K.; Masuko, T.: Equilibrium Disperse Dye Sorption by Drawn Polypropylene Films, 3409
Yoshii, F.
—; Sasaki, T.; Makuuchi, K.; Tamura, N.: Durability of Radiation-Sterilized Polymers. I. Estimation of Oxidative Degradation in Polymers by Chemiluminescence, 3339
Younan, M. Y. A.
—; Mohsen, R.; El-Hennawi, I. M.; El-Rifai, M. A.: Effect of Stabilizer Type on Artificial Weathering of Rigid PVC. II, 1999
Yu, X.

—; Nagarajan, M. R.; Li, C.; Speckhard, T. A.; Cooper, S. L.: Properties of Ultraviolet Cured Polydimethylsiloxane–Urea Acrylates, 2115
Yuhua, Y. See Baogong, Q., 375

Zadorecki, P.
—; Flodin, P.: Surface Modification of Cellulose Fibers. I. Spectroscopic Characterization of Surface-Modified Cellulose Fibers and Their Copolymerization with Styrene, 2419
—; Flodin, P.: Surface Modification of Cellulose Fibers. II. The Effect of Cellulose Fiber Treatment on the Performance of Cellulose–Polyester Composites, 3971
Zahran, A. H. See Hebeish, A., 4057, 9007
Zarkhin, L. S. See Enikolopian, N. S., 2291
Zielinski, R. See Masiulanis, B., 2731
Zurimendi, J. A. See Guerrero, S. J., 955

Subject Index to Volume 30

Acrylamide, 723
—, polymerization, 3113(N)
—, polymerization of, 1629
Acrylamide polymers, 875
Acrylic acid, preirradiation grafting of, 1023
Acrylic polymer–monomer system, 709, 3961
Adhesives, 755
—, pressure-sensitive, 1167
Adsorption resins, 3239
Alcohols, reaction with isocyanates, 1733
Aldonitrones, as melt stabilizers, 3267
Aliphatic polyamides, 2505
—, glass transition temperature, 1669
Alkali metal ions, transport, 2565
Alkaline hydrolysis, of esters and nitriles, 1741
Amino acids, 221
Anionic polymerization, 3249
Antioxidant mechanism, 789
ARB type reversible step growth polymerization, 445
Artificial weathering, 1999
Asymmetric membranes, 2805
Autoignition delays, 3531
Autooxidation, 9011
Azo dyes, diffusion in gelatin matrices, 2075
—, solubility in gelatin matrices, 2075

Batch polymerization processes, 3707, 3825
Block copolymers, 2051, 2297
—, polystyrene–polyoxyethylene, 985
Boger fluid, 1379
Borane complexes, 3589
Bovine serum albumin, 2847
Burnt mazote boiler deposit (BMBD), and poly(methyl methacrylate)s, 3443
Butadiene telomerization process, 9014

Carbon black, 2041
Carbon/epoxy hardware, 1847
Carbon fibers, properties of, 1565
Carbon-13 nuclear magnetic resonance (NMR), 2853
Cardonal–formaldehyde reaction, kinetics of, 979
Cardonol–formaldehyde reaction, 969
Cation freeing, 4297
Cationic grafting, 2041
Cationic polymerization, 2997
Cationic polymers, surface deposition of, 937
Cellulose, 2263
—, mercerization of, 325
—, products of, 897
—, thermal degradation of, 897
Cellulose acetate, thermal behaviors of, 151
Cellulose acetate film, 159
Cellulose acetate membranes, 35
Cellulose alkalization, 263
Cellulose dyeing, 3697
Cellulose fiber, 3051
Cellulose fibers, 2419
—, flame retardant action, 4345
—, treated, 3971
Cellulose graft copolymerization, effect of stirring, 4175
Cellulose physical structure, cellulose I–II transition, 3779
Cellulose suspension system, 1365
Cellulosic fibers, 3119(N)
Chain extenders, for polyesters, 3325
Chemical etching, 19
Chemiluminescence, 3339
Chitin, adsorption properties, 4325
Cholesteryl additives, 2869
Clay coating films, mechanical properties of, 581
CMPS–PEG-based systems, 3767
C-nitroso compounds, 189
Coaxial cables, 1587
Coherent optics, 3953
Copolymer beads, 1741
Copolymerization, radiation-induced, 2643, 2655
Copolymers, acrylonitrile-based, 1113
—, blends, 4305
—, filled, 2315
—, MMA–DMN, 781
—, porous, 781
—, vinyl chloride–vinyl acetate, effect of polymerization on, 1285
—, water soluble, 45
Cotton fabric, cyanoethylated, 4057
Cotton fiber, stress, 3801
Cotton fibers, bonding, 3467
—, irradiation, 4197(N)
—, x-ray orientation of, 435(N)
Cotton graft copolymers, dyeability, 9007
p-Cresyl glycidyl ether, 531
Crosslinked rubber gel, 1969
Crosslinking, DVB systems, 2065
—, polymers, 9011
Crosslinking agents, formaldehyde-free, 3467
Crystal conversion, 4357
Crystalline morphology, effects on polypropylene, 4495(N)
Cured epoxy resin systems, moisture transport, 4467
Curing agents, 3569

Diblock copolymers, blending of, 1659

Dicyclopentadiene, polymerization, 2787
Differential calorimetry studies, of cure of carbon fiber–epoxy composite prepregs, 289
Differential scanning calorimetry, 2279
Diisocyanates, 3505(N)
Divalent metal salts, composition of, 1229
DMT, transesterification with EG, 205
Drag reducing agents, 4013
Drawn isotactic polypropylene, 4159
Dye leveling, of PET fibers, 1195
Dye sorption, 3409
Dyestuffs, adsorption, 4325

Elastomeric ionomers, 2179
Elastomers, curing reaction of, 1049
—, polyurethane, 4337
—, with sulfen amides, 1049
—, with triazine thiols, 1049
Electrical conductivity, 769
Electron acceptors, 1133
Electron irradiation, 3233
Epikote 828-ATBN blend systems, 4031
Epoxy–amine networks, 363
Epoxy matrix systems, 9013
Epoxy network systems, 2955
Epoxy resins, 83, 1573, 1875, 2351, 2527, 2853, 2907, 2997, 4031
Epoxy systems, high-performance, 1717
Errata, 2721, 4201
Ethylene–vinyl acetate copolymers, mechanical behavior, 2551

Fabrics, thermal conductivity, 2343
Fatigue mechanism, 3397
Fatigue properties, of polymeric fibers, 1859
Fiber reinforcement, 1827
Fibers, heat treatment, 2689(N)
Field desorption mass spectrometry, 1461
Film casting methods, 4273
Fire retardants, in PE silicone blends, 461
Flame retardant agents, 1449
Flame retardants, 2263, 4345
Fluids, viscoelastic, 1379
Foam sheet extrusion process, 3297
Free-radical emulsion polymerization, 3841
Furan resins, 2137

Gamma radiation, 1707, 4057
Gases, solubility of, 1145
—, sorption of, 1173
—, transport of, 1173
Gas permeability, 1605
Gas separation, 695
Gas sorption, 4019
—, in PVC, 3649
Gas transport, in poly(vinyl benzoate), 401
Gelatin graft copolymers, 609, 915
Gel permeation chromatography, 1535, 2237
Glass fibers, 1707
Glass-filled thermoplastics, 3451
Glass transition temperature, 1669, 2687(N), 3891, 4319, 9003
Glassy particles, formation of, 843
Glassy polymers, 2633
Graessley's theoretical function, 3579, 3585
Graft copolymerization, 45, 151, 159, 1399, 2171, 2253, 2753
Grafting, 3523
Guayule rubber, degradation, 2367

Haloborane complexes, 3589
Hamielec equations, 3377
Heat treatment, effect on tire cords, 4417
High density polyethylene (HDPE) sheets, preparation of, 1241
Holographic interferometry, 3953
Human hair, surface wettability of, 925, 937
Hydrocarbon polymers, 2179
Hydrosilylation crosslinking, 1837
Hydrostatic compression tester, 3153

Impurity removal, 9001
Injection molding process, 2663
Interpenetrating polymer networks, properties of, 2157
Inverse gas chromatography, 1815
Iodine, sorption of, 1617
Iodine complex formation, 1617
Ion-exchange membranes, 1277
Ionomers, 2821, 2837
Ion pair–ion pair interactions, in polyurethane–styrene blends, 3317
iPP/PCP blends, compatibility, 1989
γ-Irradiation, 35
Isocyanates, reaction with alcohols, 1733
cis-Isoprene rubbers, 1927
Isotactic polypropylene (PP) films, 3409

Kapton polyimide, 4409
Kapton polyimide film, water in, 1035
Kinetic modeling, 3377

Laminar–turbulent transition, 4235
Laminates, mat–polyester, 1083
Latex adsorption isotherm endpoints, determination of, 473
Latex particle morphology, 1903
Lignin-based thermosetting polyurethanes, 2207

Linear low density polyethylene, 9008
Linear low density polyethylene (LLDPE), uniaxial orientation, 4251
Linear polyolefins, blends, 9009
Liquid crystalline polymers, 2329
Liquid developers, use of polymer colloids, 593
Liquids, volatile, solubility of, 1145
Long chain branching, 3751
Low density polyethylene, 423(N)
—, shear modification of, 1345
Low density polyethylene (LDPE), uniaxial orientation, 4251

Macromolecular chains, 4319
Macromolecular coal networks, 9005
Macroreticular chelating resins, 3239
Maleic anhydride/acrylonitrile, reactions onto PVA, 4045
Maleic anhydride/PVA reactions, 3895
Mark–Houwink constants, 1535
Mark–Houwink–Sakurada constant, 1359
Mark–Houwink–Sakurada constants, estimation of, 1323(N)
Matrix resins, 3879
Matrix viscoelasticity, 1875
Melt mixing, 1267
Melt spinning, 1639, 2615
Melt spinning instability, polyolefin blends, 9009
Mesophase, 2979
Mesophase layer, 621
Metal ion additive–polyimide, interactions, 4149
Metal ions, 2967
Methacrylic acid, 2253, 3059
—, preirradiation grafting of, 1023
Methyl methacrylate, free-radical chain polymerization, 3985
—, graft copolymerization of, 135
—, grafting of, 515
—, graft polymerization of, 1399
Methyl methacrylate copolymers, miscibility with poly(styrene-co-acrylonitrile)s, 4193(N)
3-MeV proton radiation, effects of, 1753
Micelles, formation of, 143
Micropolar law fluids, 4235
Moelcular weight distribution, 1187
Molecular weight, 709, 1359
—, determination of, 1211
Molecular weight distribution, 227, 3249, 3707, 3825
—, of polyethylene, 2707(N)
Molecular weights, 1187
Monofilaments, 2575
Mooney scorch time, 71
Mulberry silk, effect of plasma treatment, 4127

Nafion membranes, 769
Na ion-sensitive polymeric membranes, 487
Natural rubber, epoxidation, 3347
NCO/OH ratio, 761
Nigeria natural rubber, stabilization of, 571
NMR spectroscopy, 3347
Nylon 6, blends, 2431, 2457
—, mechanical properties of, 165
Nylon 6 reactors, 9004
Nylon-6 tire cords, effect of heat treatment, 4417

Oil recovery, 875
—, use of polyacrylamides in, 955
Olefins, polymerization of, 1065
α-Olefins, 3545
Organic wastes, 2715(N)
Organosilicon compounds, 3385
Oxycelluloses, 4297
Oxygen injection, 3841
—, as control measure, 3189

Paint films, dynamic mechanical properties, 111
—, humidity effects, 111
—, related properties of, 675
PAM-*g*-cellulose copolymers, 2779
Paper, behavior during drying, 1597
—, conductivity in, 1257
—, water sorption in, 1257
Particle composites, 2687(N)
Particulate, 2979
Particulate fillers, 3519(N)
PDMS, solubility data, 307
Permeation parameters, 1393
Pervaporation, 2805
PET fibers, dye leveling, 1679
—, dye leveling in, 1195
PET filaments, 19
Phase separation, thermally induced, 317
Phenolic resols, 2279
Photoacoustic spectroscopy, 3791
Photopolymer morphology, 1499
bis-phthalonitrile monomers, 2921
PIB, solubility data, 307
Plasma polymerization, 3385
PMMA, effects of nickel salt, 1963
PMMA composites, 1935
Polyacetylenes, gas permeability of, 1605
Polyacrylamides, in oil recovery, 955
Polyacrylic acid macromolecules, 4357
Polyacrylonitrile, solvent spinning from DMF, 667
—, solvent spinning from DMSO, 667
Polyamic acid, 2883
Polyamide–epichlorohydrin resins, 4099
Polyamide–epoxide copolymer, 1321(N)
Polyamide–imides, 61
Polyamides, from bisacid A2, 3283
Polyanions, 2847
Polyarylate blends, 4081
Poly(BEMO), thermal decomposition behavior, 95
1,2-Polybutadiene networks, 755
Polybutene-1, phase transformation, 3163
Poly(ε-caprolactone)/poly(styrene-/co-acrylonitrile) blends, mechanical properties of, 1545
Polycarbonate, melt mixing of, 1267
Polycarbonate blends, phase behavior with polymers, 4243
Polycarbonate–glass bead composites, tensile behavior, 2389
Polydisperse macromolecules, 2237
Polydisperse polymers, 355
Polyesterimides, 3867
Polyester (PET) fibers, dyeing behavior, 3423
Polyester resins, 1309, 2031
Poly(ethyl 2-cyanoacrylate) adhesive, 2863

Polyethylene, 9002
—, irradiated, 2941
—, plasma-fluorinated, 1407
Polyethylenes, changes in properties of, 731
—, low density, 741
Poly(ethylene terephthalate), fatigue behavior, 1859
—, melt mixing of, 1267
—, optical characterization of, 251
Poly(ethylene terephthalate)/cellulose blends, 2105
Poly(ethylene terephthalate) yarns, 3069
60/40 Poly(hydroxybenzoic acid-coethylene terephthalate) (PHB/PET), rheological properties, 2329
Polyimide, adhesion, 3107(N)
Polyimides, 3505(N)
Polyimide systems, 2401
cis-1,4-Polyisoprene, polymerized with lanthanide catalyst system, 375
Polymer application, renewable resources, 1767(N)
Polymer blends, rheological compatibility, 4431
Polymer-bound steroids, 2761
Polymer colloids, 593
Polymer crystallization, and CO_2 gas sorption, 3911
Polymer–filler particles, 2743
Polymer films, water permeation in, 1393
Polymeric melts, spinning of, 1327(N)
—, viscosity of, 1327(N)
Polymerization reaction engineering, 9004
Polymer latex films, 4273
Polymer latex particles, characteristics, 3857
Polymer–leather composites, 3095
Polymer ligands, 3143
Polymer melts, rheology, 9006
Polymers, containing bicycloorthoester structure, 1419
—, containing spiroorthoester structure, 1419
—, dynamic fatigue properties, 4495(N)
—, effect of temperature on, 925
—, electrically conducting, 2921
—, filled with carbon materials, 2225
—, halogenated, 4243
—, liquid polysulfide, 855
—, liquid state, 1553
—, mechanical fractures, 2291
—, obtaining nonlinear viscoelasticity parameters, 4203
—, radiation-sterilized, 3339
Polymer solutions, rheological properties, 9012
Polymer structures, matching properties, 9010
Poly(methyl acrylate)/poly(epichlorohydrin) blends, gases in, 1173
Poly(γ-methyl glutamate), gas sorption, 2723
Polyolefines, selective etching of, 1949
Polyolefins, 165
Polyorganosiloxanes, 4287
Polyphenylene sulfide, kinetics of, 997
Poly(*meta*-phenylene terephthalamide), 297
Polypropylene, blends of, 1777, 1799
—, high temperature GPC, 2413
Polypropylene fibers, 1523, 2643, 2655, 3479
—, dyeing behavior, 4455
Polypropylene (PP) materials, rubber modified, 2485
Polystyrene foam sheets, 3515(N)
Polystyrene solutions, 3585
Polysulfide sealants, 3569
Polysulfones, 1753
Polyterephthalates, properties of, 889
—, synthesis of, 889
Polythioesters, 1579
Polyurethane foams, 333
Polyurethaneimide elastomers, 2731
Polyurethanes, lignin-based, 3809
—, radiation crosslinking, 2701(N)
Poly(vinyl alcohol) (PVA), 4137
—, degradation, 2321
—, thin film, 3225
Poly(vinyl benzoate), gas transport, 401
Poly(vinyl chloride), effect of γ-radiation on, 279
—, structural heterogeneities of, 843
—, surface properties, 4385
Poly(vinyl chloride)–dioctylphthalate systems, 2009
Poly(vinyl chloride) grain structure, 3605
Poly(vinyl chloride) (PVC), artificial weathering of, 1999
Poly(vinyl chloride) (PVC) compounds, 1695
Poly(vinyl chloride) (PVC) films, effect of syndiotacticity on, 1219
—, electrical conductivity of, 1133
Poly(vinylidene fluoride), 2615
—, drawing behavior, 4069
Polyvinylidene fluoride membranes, sulfonated, 3009
Positive photoresists, 547
Potential theory, 2695(N)
Power law fluids, 4235
PPO blends, 317
PP/PE blends, properties of, 1473
PP/PEP blend, annealing of, 497
PP/PE/propylene–ethylene blends, properties of, 1473
Present–de Bethune equation, 695
Pressure-sensitive adhesive, 2675
Pressure-sensitive adhesives, 3369
Pressure–volume–temperature (PVT) equation of state, 1553
Propellants, polyurethane/composite, 1095
Proteins, immobilization of, 1113
PVC, structure of, 1365
PVC calendering, 1
PVC films, mechanical degradation, 3791
PVC materials, 2095

γ-Radiation, 279
Radiation-induced emulsion polymerization, vinyl acetate, 4261
Radiation-induced graft copolymerization, 3365, 3479
Radiation-induced grafting, 1277, 2967, 3059
Radiation-induced graft polymerization, 4455
Reactive dyeing, 4113
Reactive oligomer systems, 2115
Recycle flow reactor, 4261
Resin concentration, 825
Resin molecular weight, 815
Resin structure, 805
Resol, curing behavior, 3943
Reverse osmosis membranes, characterization of, 1511
Rheometers, 9006
Rubber, graft copolymerization, 2711(N)
—, graft polymerization, 429(N)
—, hydroxyl terminated, 1095
Rubber compounds, 71
Rubber-modified epoxies (RME), 3625
Rubber–resin blends, viscoelastic properties of, 805, 815, 825
Rubber sheets, vulcanization, 2663
Rubber systems, silica-filled, 3493

Schapery formulations, 4203
Screw geometry, 2095
Semibatch reactors, 445

Sepiolite, as filler, 2475
Shear modification, 9002
Short fiber-elastomer composites, dynamic properties of, 1011
Silicon comonomers, 4287
Silicone rubber, 1837
Silk fibroin, crystalline region of, 221
Size-exclusion chromatography (SEC), 3037
Sol–gel transition, polymers, 9008
Solution rheology, 3523
Stress–relaxation, 1773(N)
Stretch blow molding, 3679
Styrene–divinylbenzene (DVB) copolymer systems, 2065
Styrenes, thermal polymerization of, 1461
Surfactant titration technique, 473
Suspension stabilizers, 4187(N)
Swollen networks, 2589
Syndiotacticity, 1219
Synthetic elastomers, 2021
Synthetic fibers, use in blends, 2343

Tank reactors, 557
Telechelic polymers, 1893
Terephthalic acid/ethylene carbonates, reaction kinetics, 3617
Ternary copolymers, 3557
Theoretical birefringence, 1653
Thermal conductivity, 2225
Thermogravimetric studies, 855
Thermogravimetry, 3891, 4149
Thermoplastic resin, with fluorocarbon blowing agent, 3297
Thermoplastics, 3925
Thermosetting plastics composites, 1827
Thioether glycidyl resins, 411
Time–temperature–transformation (TTT) cure diagrams, 9003
Toluene–polyethylene system, 1407
p-Toluene sulfonic acid, 3123
Transient network models, 2941
Tri-*O*-substituted cellulose ether, thermal properties of, 345
Tri-*O*-substituted cellulose ethers, structural properties of, 345
12-Tungstosilicic acid, 3051

Uniaxial drawing, 3649
Unsaturated polyesters, 2031
Urethane-chlorinated rubber graft copolymer system, 391
Urethane elastomers, 761
UV-curable polyurethane acrylates, properties of, 647
UV irradiation-induced polymerization, 2115
UV stabilizers, 189

Vapor pressure osmometry, 1211
Vapor sorption, 4019
Vinyl acetate polymerization, 227
Vinyl ester resins, effect of styrene on, 1491
Vinyl graft polymerization, 9007
Vinyl monomers, 429(N)
Viscometry, 2607, 3023, 3037
In vitro hydrolytic degradation, 3133
VLSI technology, 547
Void formation, 1587
Volatile residues, 9001
Vulcanized natural rubber, thermoelastic properties of, 1333
—, viscoelastic properties of, 1333

Water–ethanol mixture, 179
Water sorption, effects on epoxy resins, 1573
Water transport, in polymer microparticles, 301
Water vapor, permeability of, 1167
Wood–polystyrene composite, dielectric behavior of, 799
Wood surfaces, protection, 1429
Wool fibers, 2195

X-ray orientation, 435(N)

Zhurkov modeling, 3233
Ziegler catalysts, 2707(N)
Ziegler–Natta catalysts, 1065, 3545
Ziegler–Natta polymerization, 4305